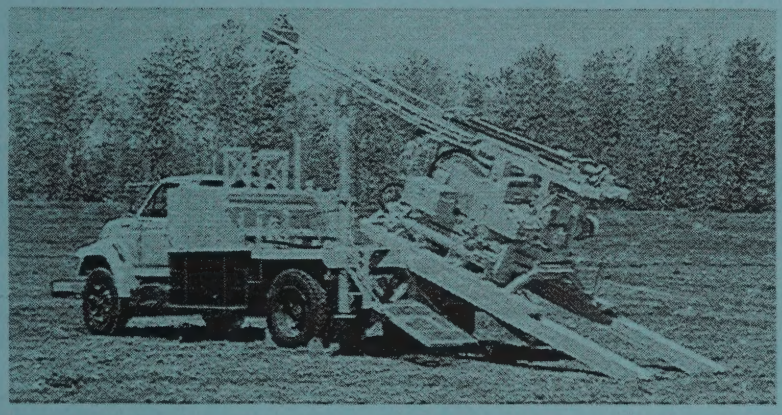
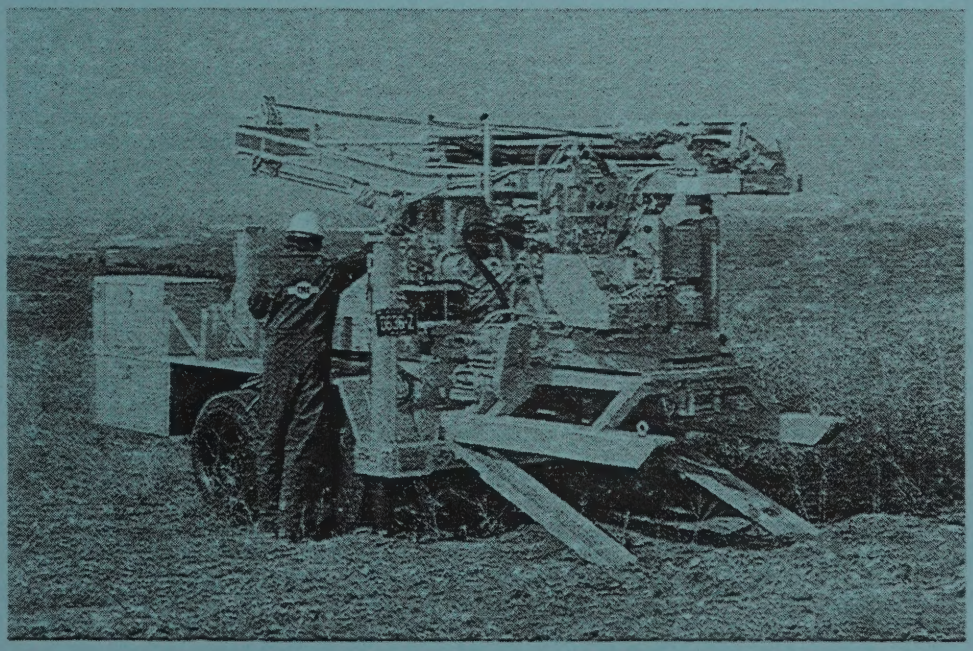
DRILL TOOL CATALOG





NYSDOT
GEOTECHNICAL ENGINEERING BUREAU

September 1998

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NYSDOT
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50 Wolf Road, POD 34
Albany, New York 12232

INSTRUCTIONS FOR USE OF DRILLING EQUIPMENT CATALOG

This catalog is categorized in two separate ways for your convenience. The first section is listed in alphabetical order, the second section is listed by group.

The drill tool requests (SM 451 - 5/81) are to be used by the driller to communicate a need for equipment. The driller must familiarize himself with the proper drill tool nomenclature in order to use the catalog properly. In order to find a particular piece of equipment, it should be found under the actual name, for example, **"ROD LIFTER"** will be found under **"LIFTER, ROD"**; **"WATER SWIVEL"** will be found under **"SWIVEL, WATER."**

1. The driller enters his name, region and date.

2. The driller picks the items needed from the catalog and enters the item number, the description, and the quantity needed. Some items have photos in each group to assist in ordering equipment.

3. If the driller cannot find the item in the catalog, he should enter the complete description and quantity.

4. If special or reoccurring problems are encountered with the tools furnished, it should be noted under "Comments on Tools Furnished".

5. The request should be submitted once every two (2) weeks along with the time sheets, by the driller to the Geotechnical Engineer for his approval and signature.

6. The gold copy of the request should be held by the Regional Geotechnical Office.

7. The remaining copies will be forwarded to the Geotechnical Engineering Bureau where the items will be furnished from stock or ordered from a vendor. This will be indicated on the request, and the white copy will be returned to the driller, along with any reply to the driller's comments under "Office Use Reply."

8. The comment section may be used to request assistance on any drilling problem as well as tool problems.

9. This catalog may be updated to include items not listed approximately every twelve (12) months.

10. All catalog items are to be ordered by the driller unless otherwise indicated.

    a). A single asterisk (*) indicates items to be ordered by the Geotechnical Office.

    b). A double asterisk (**) indicates the item is to be ordered by the Geotechnical Office and returned to the Main Office upon completion of the job.

    c). A triple asterisk (***) indicates items to be ordered by the individual for personal use such as boots, hats, etc. (include size and color if applicable).

Metric Conversion Charts

Meters	To	Feet
0.2		0.66
0.4		1.31
0.6		1.97
0.8		2.62
1		3.28
2		6.56
3		9.84
4		13.12
5		16.40
6		19.68
7		22.97
8		26.25
9		29.53
10		32.81
11		36.09
12		39.37
13		42.65
14		45.93
15		49.21
16		52.49
17		55.77
18		59.05
19		62.34
20		65.62

Inches	To	mm
1		25.4
2		50.8
3		76.2
4		101.6
5		127.0
6		152.4
7		177.8
8		203.2
9		228.6
10		254.0
11		279.4
12		304.8
13		330.2
14		355.6
15		381.0
16		406.4
17		431.8
18		457.2

mm	To	Inches
1		0.04
10		0.39
20		0.8
150		6
300		12
450		18

Feet	To	Meters
1		0.30
2		0.61
3		0.91
4		1.22
5		1.52
6		1.83
7		2.13
8		2.44
9		2.74
10		3.05
11		3.35
12		3.66
13		3.96
14		4.27
15		4.57
16		4.88
17		5.18
18		5.49
19		5.79
20		6.10
21		6.40
22		6.71
23		7.01
24		7.32
25		7.62
26		7.92
27		8.23
28		8.53
29		8.84
30		9.14
31		9.45
32		9.75
33		10.06
34		10.36
35		10.67
36		10.97
37		11.28
38		11.58
39		11.89
40		12.19
41		12.50
42		12.80
43		13.11
44		13.41
45		13.72
46		14.02
47		14.33
48		14.63
49		14.94
50		15.24

Common Conversion Factors

UNIT	MEASURES...	MULTIPLY BY:	TO GET:
m	*length*	*3.28*	feet
mm	*length*	*0.04*	inches
kPa	*pressure*	*0.145*	p.s.i.
kg	*weight*	*2.21*	pounds
L	*volume*	*0.264*	gallons

Common Equivilancies

Metric	English
150 mm	6 in
300 mm	12 in
450 mm	18 in
600 mm	24 in
760 mm	30 in
1.5 m	5 ft
136.3 kg	300 lb
63.6 kg	140 lb

DRILL TOOL CATALOG

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
10	DB	$75.00	ADAPTOR, HEAD (108 MM EXP. FOR THIN WALL BIT)	{4¼"}
20	DB	$85.00	ADAPTOR, HEAD (158.8 MM EXP. FOR THIN WALL BIT)	{6¼"}
30	CP	$.75	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM PIPE FEMALE)	{1"}
33	CP	$9.68	6" PVCPRS MALE ADPT. SLIP TO MALE	
35	CP	$.76	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM MALE PIPE)	{1"}
36	CP	$14.30	6" PVC ADAPT SLIP TO FEMALE	
40	HT	$39.00	AUGER, IWAN 150 MM	{6"}
50	HT	$35.00	AUGER, IWAN 100 MM	{4"}
55	HT	$40.00	AUGER, IWAN 75 MM	{3"}
60	HT	$15.00	AUGER, IWAN 50 MM	{2"}
70	DT	$490.00	AUGER, JET 92 MM	{3⅝"}
80	DT	$480.00	AUGER, JET (92 MM WITH CALYX)	{3⅝"}
90	DT	$95.00	AUGER, JET (79 MM)	{3⅛"}
100	HT	$10.05	AXES, SINGLE BIT	
105	AU	$114.00	BAR, 41 MM HEX, AUGER EXT. ***See Photo on Page 28.***	{1⅝"}
110	DT	$84.00	BAR, JAR (63.5 MM DOUBLE EXTRA HEAVY)	{2½"}
120	HT	$3.22	BAR, PINCH (600 MM)	{24"}
125	HT	$40.00	BAR, POLE (2 M)	{6'}
130	HT	$48.69	BAR, POLE (2.4 M)	{8'}
150	CB	$154.00	BARREL, CORE ("AWX" S.T. 1.5 M/AW ROD CONN)	{5'}
155	CB	$595.00	BARREL, CORE (AW 34 D.T. 1.5 M/AW ROD CONN) ***See Photo on Page 42.***	{5'}
170	CB	$280.00	BARREL, CORE ("AWM" D.T. 1.5 M/AW ROD CONN)	{5'}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
190	CB	$179.00	BARREL, CORE ("BWX" S.T. 1.5 M/BW ROD CONN) *See Photo on Page 42.*	{5'}
200	CB	$331.50	BARREL, CORE ("BWX" D.T. 1.5 M/BW ROD CONN)	{5'}
210	CB	$344.50	BARREL, CORE ("BWM" D.T. 1.5 M/BW ROD CONN)	{5'}
230	CB	$216.00	BARREL, CORE ("NWX" S.T. 1.5 M/NW ROD CONN)	{5'}
240	CB	$350.00	BARREL, CORE ("NWX" D.T. 1.5 M/"NW" ROD CONN)	{5'}
241	CB	$550.00	BARREL, CORE ("NWX" D.T. 3 M/"NW" ROD CONN)	{10'}
247	CB	$250.00	BARREL, CORE ("NWM" D.T. .6 M/"NW" ROD CONN)	{2'}
250	CB	$475.00	BARREL, CORE ("NWM" D.T. 1.5 M/"NW" ROD CONN)	{5'}
255	CB	$865.00	BARREL, CORE (NXD4 1.5 M CHRISTENSEN/"NW" ROD CONN)	{5'}
257	CB	$928.55	** BARREL, CORE ("NQ" 50 MM WIRELINE LONGYEAR D.T. 5)	{2",5'}
258	CB	$1000.80	** BARREL, CORE ("NQ" 50 MM WIRELINE 3 M)	{2",10'}
260	CB	$350.00	BARREL, CORE ("HWX" S.T. 1.5 M/NW ROD CONN)	{5'}
270	SA	$95.00	BARREL, MAIN (25.4 MM R.P.S.)	{1"}
290	CB	$25.00	BEARING, "AWX"/"AWM" CORE BARREL (SET)	
300	CB	$30.00	BEARING, "NWX"/"NWM" CORE BARREL (SET)	
320	DT	$9.00	BENTONITE (QUICK-GEL-VOLCLAY-PWD/ GRAN) 23 KG. BAG	{50 LB}
321	DT	$12.00	BENTONITE-BENSEAL (50# BAG)	{50 LB}
330	HT	$47.25	BINDER (9.5 MM CHAIN)	{⅜"}
380	BT	$80.00	BIT, CHOPPING ("AW" CONN.-54 MM WIDTH)	{2⅛"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
384	BT	$90.00	BIT, CROSS CHOPPING ("AW"CONN.-44.5 MM WIDTH)	{1¾"}
390	BT	$185.00	BIT, CHOPPING ("NW" CONN.-82.6 MM WIDTH)	{3¼"}
400	BT	$85.00	BIT, DRAG 57 MM (QUARRY BIT) ***See Photo on Page 36.***	{2¼"}
410	BT	$97.00	BIT, DRAG 88.9 MM (QUARRY BIT) ***See Photo on Page 36.***	{3½"}
505	BT	$135.00	BIT, ROLLER 75 MM ***See Photo on Page 36.***	{2-15/16"}
510	BT	$190.00	BIT, ROLLER 83 MM ("NW" CONN.)	{3¼"}
520	BT	$170.00	BIT, ROLLER 90 MM (60.3 MM API CONN.)	{3½", 2⅜"}
530	BT	$162.40	BIT, ROLLER 95 MM (60.3 MM API CONN.) ***See Photo on Page 36.***	{3¾", 2⅜"}
540	BT	$205.00	**BIT, ROLLER 114 MM (60.3 MM API CONN.)	{4½", 2⅜"}
550	BT	$231.00	**BIT, ROLLER 143 MM (88.9 MM API CONN.)	{5⅝", 3½"}
575	AU	$4.90	BLADES (CUTTER FOR CME) ***See Photo on Page 29.***	
580	AU	$10.00	BLADES (CUTTER FOR MOBILE-EA.)	
590	MT	$.65	BLADES, HACKSAW 305 MM (18,24,32 TEETH PER- 25 MM)	{12"}
595	AU	$70.00	CENTER HEAD ASSEMBLY FOR PILOT	{2¼"}
596	AU	$30.00	CENTER HEAD ASSEMBLY FOR PILOT	(4¼"}
620	HT	$35.00	BLOCK, ROPE (SNATCH 150 MM)	{6"}
622	HT	$136.98	BLOCK, ROPE (SNATCH 200 MM)	{8"}
626	AU	$3.50	BOLT DRIVE CAP W/NUT (21011)	
628	AU	$2.90	BOLTS (FOR CME AUGERS) ***See Photo on Page 29.***	
630	AU	$2.00	BOLTS (FOR MOBILE CUTTER BLADES-EA.)	
640	DT	$15.00	BOLTS, EYE (ACKER HAMMER 136.2 KG)	{300 LB}
650	DT	$15.00	BOLTS, EYE (S&H HAMMER 136.2 KG)	{300 LB}
660	PI	$18.57	*** BOOTS (HIP) SIZE 6	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
661	PI	$18.57	*** BOOTS (HIP) SIZE 7	
662	PI	$18.57	*** BOOTS (HIP) SIZE 8	
663	PI	$18.57	*** BOOTS (HIP) SIZE 9	
664	PI	$18.57	*** BOOTS (HIP) SIZE 10	
665	PI	$18.57	*** BOOTS (HIP) SIZE 11	
666	PI	$18.57	*** BOOTS (HIP) SIZE 12	
667	PI	$18.57	*** BOOTS (HIP) SIZE 13	
668	PI	$18.57	*** BOOTS (HIP) SIZE 14	
670	PI	$9.04	*** BOOTS (KNEE HIGH) SIZE 6	
671	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 7	
672	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 8	
673	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 9	
674	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 10	
675	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 11	
676	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 12	
677	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 13	
678	PI	$9.25	*** BOOTS (KNEE HIGH) SIZE 14	
680	DT	$130.00	BOULDER BUSTER (57 MM)	{2¼"}
690	DT	$156.25	BOULDER BUSTER (88.9 MM)	{3½"}
720	MT	$38.19	BOX (TOOL 0.6 M)	{24"}
730	HT	$2.04	BRUSHES (WIRE)	
750	HT	$30.00	CABLES, JUMPER	
760	HT	$15.38	CANS (GAS-20 L JUST RITE SAFETY)	{5 GALLON}
765	HT	$3.19	CANS, OIL (PUSH BOTTOM OILERS 0.5 L)	{1 PT}
775	AU	$137.00	CAPS, DRIVE (CME) 57 MM AUGER ***See Photo on Page 29.***	{2¼"}
777	AU	$222.00	CAPS, DRIVE (CME) 108 MM AUGER ***See Photo on Page 29.***	(4¼")
780	SA	$1.00	CAPS (150 MM) BRASS	{3"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
790	SA	$.30	CAPS (88.9 MM LINER)	{3½"}
795	CP	$3.00	CAPS (SI 84.4 MM)	{3.34"}
800	SA	$.30	CAP, PVC (150 MM PRESS TYPE)	{3"}
801	CP	$1.00	CAP, PVC (25.4 MM PIPE THREAD)	{1"}
809	CP	$10.78	6" PVC PRES CAP SCH 40	
830	CB	$31.00	CASE, LIFTER ("AWM")	
835	CB	$21.00	CASE, LIFTER (AW-34) ***See Photo on Page 41.***	
840	CB	$31.00	CASE, LIFTER ("BWM")	
850	CB	$20.00	CASE, LIFTER ("NWM")	
855	CB	$25.00	CASE, LIFTER (NXD-4) ***See Photo on Page 41.***	
860	SA	$25.00	CASING (25.4 MM R.P.S. 1 M EACH)	{1", 3'}
865	CP	$42.30	CASING, "AW" (1.5 M LENGTH)	{5'}
870	CP	$31.00	CASING, "BW" (0.3 M LENGTH)	{1'}
880	CP	$42.00	CASING, "BW" (0.6 M LENGTH) ***See Photo on Page 47.***	{2'}
890	CP	$60.00	CASING, "BW" (1.5 M LENGTH)	{5'}
912	CP	$40.00	CASING, "NW" (0.3 M LENGTH)	{1'}
915	CP	$48.00	CASING, "NW" (0.6 M LENGTH)	{2'}
917	CP	$70.00	CASING, "NW" (1.5 M LENGTH) ***See Photo on Page 47.***	{5'}
940	CP	$39.00	CASING, "HW" (0.3 M LENGTH)	{1'}
950	CP	$68.00	CASING, "HW" (0.6 M LENGTH) ***See Photo on Page 47.***	{2'}
960	CP	$90.00	CASING, "HW" (1.5 M LENGTH-EA.)	{5'}
962	CP	$75.00	** CASING, "PW" (0.6 M LENGTH)	{2'}
963	CP	$123.50	** CASING, "PW" (1.5 M LENGTH)	{5'}
970	HT	$10.00	CHAIN (0.6 M CHAIN WRENCH)	{24"}
980	HT	$28.44	CHAIN, LOGGING (9.5 MM- 5 M LONG W/HOOKS)	{⅜", 16'}
990	HT	$100.00	CHAIN, TIE DOWN (DOZER ONLY)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1001	MT	$1.63	CHISEL (6 MM)	{¼"}
1002	MT	$2.36	CHISEL (9 MM)	{5/16"}
1003	MT	$5.00	CHISEL (13 MM)	{½"}
1004	MT	$5.56	CHISEL (16 MM)	{⅝"}
1005	MT	$9.04	CHISEL (19 MM)	{¾"}
1006	MT	$7.00	CHISEL (13 MM EXTRA LONG)	{½"}
1007	MT	$5.00	CHISEL (19 MM EXTRA LONG)	{¾"}
1008	MT	$3.50	CHISEL (22 MM)	{⅞"}
1009	MT	$5.00	CHISEL (25.4 MM)	{1"}
1010	HO	$3.00	CLAMPS (25.4 MM DISCHARGE HOSE BOLTED) ***See Photo on Page 62.***	{1"}
1020	HO	$.49	CLAMPS (25.4 MM PLASTIC HOSE)	{1"}
1030	HT	$2.50	CLEANER (HAND 0.45 KG CANS-CREAM)	{1 LB}
1060	HO	$3.00	CONNECTION (19 MM THREADED MALE SNAP ON)	{¾"}
1080	HO	$3.00	CONNECTION (25.4 MM THREADED MALE SNAP ON) ***See Photo on Page 62.***	{1"}
1090	HO	$3.00	CONNECTION (25.4 MM THREADED FEMALE SNAP ON) ***See Photo on Page 62.***	{1"}
1120	HO	$2.65	CONNECTION (SNAP ON 25.4 MM HOSE) ***See Photo on Page 62.***	{1"}
1123	HO	$3.82	CONNECTION, QUICK (32 MM FEMALE THREAD) "ADAPTOR A"	{1¼"}
1124	HO	$8.36	CONNECTION, QUICK (32 MM FEMALE THREAD) "COUPLER D"	{1¼"}
1127	HO	$8.38	CONNECTION, QUICK (38.1 MM STAB) "COUPLER C"	{1½"}
1128	HO	$8.38	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "COUPLER D" ***See Photo on Page 63.***	{1½"}
1129	HO	$4.88	CONNECTION, QUICK (38.1 MM MALE THREAD) "ADAPTER F"	{1½"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1131	HO	$3.60	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "ADAPTER A"	{1½"}
1133	HO	$5.72	CONNECTION, QUICK (50.8 MM MALE THREAD) "ADAPTER F"	{ 2" }
1134	HO	$4.38	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "ADAPTER A" ***See Photo on Page 63.***	{2"}
1135	HO	$9.04	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "COUPLER D"	{2"}
1150	SA	$40.00	CONNECTOR, SPECIAL (SAMPLER ADAPTER)	
1160	RD	$16.00	COUPLINGS ("AW" ROD)	
1165	RD	$24.30	COUPLING ("BW" ROD)	
1170	RD	$30.20	COUPLINGS ("NW" ROD)	
1180	CP	$1.00	* COUPLINGS (25.4 MM PVC)	{1"}
1190	CP	$2.50	* COUPLINGS (76.2 PVC)	{3"}
1195	CP	$5.00	COUPLINGS (SI 84.8 MM)	{3.34"}
1200	CP	$.55	COUPLINGS (12.7 MM PIPE)	{½"}
1201	CP	$5.48	COUPLING, REDUCER (2"X1½")	
1202	CP	$3.11	COUPLING, REDUCER (1¼X1")	
1210	CP	$.99	COUPLING (19.1 MM PIPE)	{¾"}
1211	CP	$4.00	COUPLING, REDUCER (1½X1¼)	
1220	CP	$.79	COUPLING (25.4 MM PIPE)	{1"}
1230	CP	$21.00	COUPLING (63.5 MM PIPE)	{2½"}
1240	CP	$36.00	COUPLINGS (101.6 MM PIPE)	{4"}
1250	CP	$15.00	COUPLINGS (152 MM PIPE)	{6"}
1285	SA	$6.75	CUPS, 88.9 MM LEATHER PISTON SAMPLE	{3½"}
1290	HT	$14.57	* DIGGER (POST HOLE-LONG HANDLES)	
1300	HO	$15.00	DISCONNECT (QUICK HYD. PARKER-HANNIFIN)	
1310	MT	$4.00	FILE, 200 MM (3 CORNERED)	{8"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1312	MT	$6.00	FILE, 200 MM (3 CORNERED-SMOOTH)	{8"}
1318	MT	$3.98	FILE, 200 MM (SQUARE-SMOOTH)	{8"}
1320	MT	$10.00	FILE, 300 MM (FLAT BASTARD)	{12"}
1344	MT	$10.00	FILE (HALF ROUND 300 MM BASTARD)	{12"}
1350	MT	$8.00	FILE, 300 MM (ROUND BASTARD)	{12"}
1370	DT	$1.41	FLAGGING (RED ROLLS)	
1380	DT	$1.41	* FLAGGING (YELLOW ROLLS)	
1383	AU	$190.00	FLIGHTS (57 MM HOL. 0.6 M LENGTHS) ***See Photo on Page 30.***	{2¼", 2'}
1384	AU	$242.00	FLIGHTS (57 MM X 159 MM HOL. 1.5 M LENGTHS) ***See Photo on Page 30.***	{2¼", 6¼", 5}
1386	AU	$357.00	FLIGHTS ***See Photo on Page 30.***	{4¼",8",5'}
1389	AU	$200.00	FLIGHTS (86 MM X 210 MM HOL. 0.6 M LENGTHS)	{3⅜", 8¼", 2'}
1390	AU	$325.00	FLIGHTS (86 MM HOL. 1.5 M LENGTHS-MOBILE)	{3⅜", 5'}
1400	AU	$175.00	FLIGHTS (100 MM SOL.,1.5 M LENGTHS-MOBILE)	{4", 5'}
1413	AU	$175.00	FORK, AUGER ***See Photo on Page 31.***	{4¼"}
1414	AU	$45.00	FORK, AUGER 57 MM HSA ***See Photo on Page 31.***	{2¼"}
1415	AU	$6.00	FUNNEL (JUST-RITE, POUR)-GREY OR YELLOW	
1419	HT	$14.79	FUNNEL (9.5 L CAPACITY)	{10 QT}
1430	DT	$38.50	GAUGE (MINERAL FILLED)	
1450	HO	$1.00	GASKETS (SUCTION HOSE 38 MM NEOPRENE)	{1½"}
1451	HO	$1.00	GASKETS (QUICK CONNECT 38.1 MM NEOPRENE)	{1½"}
1452	HO	$1.00	GASKETS (QUICK CONNECT 50.8 MM NEOPRENE)	{2"}
1453	HO	$1.00	GASKETS (SUCTION 50 MM NEOPRENE)	{2"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1455	PI	$3.00	*** GLASSES (SAFETY)	
1456	PI	$4.00	GLOVES, LEATHER	
1458	PI	$4.00	GLOVES, INSULATED	
1459	PI	$2.00	GLOVES, RUBBER	
1460	CP	$1.99	* GLUE (PVC-.5 L OR .25 L)	{PT OR ½ PT}
1470	MT	$5.56	GREASE (CARTRIDGE)	
1480	HO	$1.00	GROMMETS (25 MM AIR HOSE FITTINGS) ***See Photo on Page 62.***	{1"}
1490	MT	$30.49	GUN, GREASE (LEVER HANDLE)	
1500	MT	$10.00	HACKSAW (FRAME)	
1510	SA	$59.00	* HAMMER (25 MM R.P.S.)	{1"}
1524	MT	$6.99	HAMMER, RUBBER	
1530	MT	$7.49	HAMMER (DRILLER-1.4 KG)	{3 LB}
1532	AU	$29.20	HAMMER, POINTED (FOR C.M.E.) ***See Photo on Page 32.***	
1550	MT	$8.00	HAMMER, BALL PEIN (0.2 KG)	{16 OZ}
1570	HT	$8.04	HAMMER, SLEDGE (3.6 KG)	{8 LB}
1575	DT	$275.00	HAMMER (64 KG)	{140 LB}
1580	DT	$450.00	HAMMER (136.2 KG)	{300 LB}
1590	HT	$5.00	HANDLE, AXE SINGLE BIT	
1600	HT	$5.00	HANDLE, PICK	
1610	HT	$5.00	HANDLE, SLEDGE HAMMER	
1620	HT	$2.00	HASP (100 MM)	{4"}
1629	AU	$198.00	HEAD, ADAPTOR (C.M.E. FLIGHTS)	
1630	AU	$250.00	HEAD, ADAPTOR (MOBILE FLIGHTS)	
1635	AU	$203.00	HEAD, CUTTER (57.2 MM CME) ***See Photo on Page 31.***	{2¼"}
1637	AU	$230.00	HEAD, CUTTER (108 MM CME) ***See Photo on Page 31.***	{4¼"}
1640	SA	$112.60	HEAD, DRIVE (63.5 MM X 63.5 MM "AW" ROD)	{2½", 2½"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1644	SA	$45.00	HEAD, SAMPLER (51 MM SPLIT BARREL)	{2"}
1650	CP	$210.00	HEAD, DRIVE (100 MM PIPE)	{4"}
1655	CP	$105.00	HEAD, DRIVE (100 MM PIPE W/NW ROD BOX)	{4"}
1660	CP	$110.00	HEAD, DRIVE ("BW")	
1670	CP	$120.00	HEAD, DRIVE ("HW")	
1675	CP	$115.00	HEAD, DRIVE ("NW")	
1677	CP	$210.00	** HEAD, DRIVE (PW CASING)	
1680	SA	$110.00	HEAD, SHELBY (88.9 MM)	{3½"}
1690	AU	$421.00	HEAD CUTTER, MOBILE FLIGHT (BLADE TYPE (158.8 MM X 57.1 MM)	{3⅜", 8¼"}
1700	HT	$89.90	HEATER (SPACE-SALAMANDER)	
1702	HT	$189.00	HEATER (OIL-FIRED)	
1715	PI	$9.07	*** HELMET (SAFETY-PLASTIC)	
1720	HT	$.40	HITCHPIN, HAIRPIN (3 MM X 65 MM)	{⅛" X 2-9/16"}
1730	HT	$.82	HITCHPIN, HAIRPIN (5 MM X 83 MM)	{3/16" X 3¼"}
1734	DT	$5.67	HOLDER, CRAYON	
1735	AU	$35.00	HOOK, HOISTING (CME AUGER) ***See Photo on Page 32.***	
1740	DT	$65.00	HOOK, ROD ("AW") ***See Photo on Page 57.***	
1750	DT	$75.00	HOOK, ROD ("NW")	
1755	DT	$22.00	HOOK, SAFETY	
1760	HO	$.58	HOSE (25.4 MM BRAIDED AIR-L.M.)	{1"}
1765	HO	$75.50	HOSE (32 MM AIR C.M.E.) 3 M LENGTH	{1¼", 10'}
1770	HO	$65.00	HOSE (38 MM SUCTION 6 M LENGTHS) PLASTIC	{1½", 20'}
1772	HO	$59.00	HOSE (38 MM SUCTION 6 M LENGTHS)-RUBBER	{1½", 20'}
1775	HO	$45.00	HOSE, 50 MM SUCTION (MOYNO PUMP)	{2"}
1780	HT	$20.00	HOSE (2.4 M FOR PROPANE TANKS)	{8'}
1785	AU	$2.25	INSERT, THREADED (CME-AUGER)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
1790	SA	$89.00	JACK (25.4 MM R.P.S.)	{1"}
1810	HT	$8.25	JAWS (HEEL 350 MM W/PINS)	{14"}
1820	HT	$18.16	JAWS (HOOK 350 MM)	{14"}
1830	HT	$8.25	JAWS (HEEL 450 MM W/PINS)	{18"}
1840	HT	$18.16	JAWS (HOOK 450 MM)	{18"}
1850	HT	$8.25	JAWS (HEEL 600 MM W/PINS)	{24"}
1860	HT	$18.16	JAWS (HOOK 600 MM)	{24"}
1870	HT	$15.00	JAWS (HEEL 915 MM W/PINS)	{36"}
1880	HT	$8.35	JAWS (HOOK 915 MM)	{36"}
1881	HT	$10.00	JAWS, FOR RIGID PIPE VISE (3 MM - 100 MM)	{⅛", 4"}
1883	CP	$63.00	JAWS, 76 MM (PIPE RETRIEVER)	{3"}
1884	CP	$25.00	JAWS, 63.5 MM (PIPE RETRIEVER)	{2½"}
1885	CP	$25.00	JAWS, 100 MM (PIPE RETRIEVER)	{4"}
1890	DT	$22.80	JUGS, WATER (7.6 L)	{2 GAL}
1900	DT	$8.40	KEIL (BOX)	
1910	DT	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, LARGE HOOK	
1912	DT	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, SMALL HOOK	
1920	DT	$3.20	LEVEL (CARPENTER'S 600 MM)	{24"}
1930	CB	$12.30	LIFTER, CORE ("AX") ***See Photo on Page 41.***	
1931	CB	$15.00	LIFTER, CORE AW34 ***See Photo on Page 41.***	
1940	CB	$16.00	LIFTER, CORE ("BX") ***See Photo on Page 41.***	
1950	CB	$129.00	LIFTER, CORE ("HX") ***See Photo on Page 41.***	
1960	CB	$19.00	LIFTER, CORE ("NX") ***See Photo on Page 41.***	
1985	CB	$23.00	LIFTER, CORE (NWD-4, CHRISTENSEN)	
2000	CB	$72.00	LIFTER, ROD "AW" (CLOSED)	
2000	DT	$70.00	LIFTER, ROD AW (CLOSED) ***See Photo on Page 57.***	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2010	DT	$56.00	LIFTER, ROD "AW" (OPEN) *See Photo on Page 57.*	
2020	DT	$113.00	LIFTER, ROD "NW" (CLOSED) *See Photo on Page 57.*	
2030	DT	$110.00	LIFTER, ROD "NW" (OPEN)	
2040	PI	$3.00	*** LINERS (SAFETY HELMET)	
2050	SA	$15.00	LINERS (SS-76 MM WITH CAPS)	{3"}
2060	HT	$3.00	LOCKS (PADLOCK KEYED ALIKE)	
2065	HT	$10.00	LOCKS, OAR (PR)	
2070	DT	$45.00	LUBRICANT (6.8 KG PAIL)	{15 LB}
2071	CP	$2.57	NIPPLES, 4" LENGTH (2")	
2072	CP	$1.93	NIPPLES, 4" LENGTH (1½")	
2073	CP	$1.93	NIPPLES, 4" LENGTH (1¼")	
2074	CP	$.75	NIPPLES, 4" LENGTH (½")	
2075	PI	$15.49	*** MUFFS, HUSH	
2076	CP	$1.75	NIPPLES, CLOSE (2")	
2077	CP	$1.21	NIPPLES, CLOSE (1½")	
2080	CP	$1.00	NIPPLES, CLOSE (31.8 MM)	{1¼"}
2081	CP	$.46	NIPPLES, CLOSE (½")	
2082	CP	$16.50	NOSE, PIPE RETRIEVER	
2083	HT	$4.50	NUT, 300 MM PIPE WRENCH	{12"}
2084	HT	$3.00	NUT, 450 MM PIPE WRENCH	{18"}
2085	HT	$31.50	NUT, 600 MM PIPE WRENCH	{24"}
2090	HT	$17.84	OARS (2 M PAIR)	{6½'}
2095	DT	$10.00	PACKING-SIDEFEED SWIVEL LIGHT DUTY	
2103	AU	$125.00	PILOT ASSY. 2.25 AW (21018) *See Photo on Page 30.*	
2104	AU	$257.00	PILOT ASSEMBLY *See Photo on Page 30.*	{4¼"}
2105	HT	$8.89	PICK	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2110	MT	$10.00	PIN (DRIFT 300 MM LONG)	{12"}
2115	AU	$2.90	PIN, DRIVE (CME AUGER) ***See Photo on Page 32.***	
2120	CP	$3.53	PIPE (13 MM, 1 M LONG)	{½", 3'}
2130	CP	$4.28	PIPE (19 MM AUGER-L.M.)	{¾"}
2140	CP	$2.10	PIPE (25.4 MM PVC 3 M LENGTHS-L.M.)	{1", 10'}
2150	CP	$.78	PIPE (PVC 76.2 M L.M.)	{3"}
2155	CP	$50.00	PIPE, SLOPE INDICATOR 76.2 MM- 3 M LONG	{3", 10'}
2156	CP	$15.00	PIPE, SLOPE INDICATOR 76.2 MM- 1.5 M LONG	{3", 5'}
2160	CP	$64.25	PIPE, 63.5 MM (1.5 M LENGTHS)	{2½", 5'}
2170	CP	$111.00	PIPE, 100 MM (1.5 M LENGTHS)	{4", 5'}
2180	CP	$88.00	** PIPE, 150 MM (0.6 M LENGTHS)	{6", 2'}
2190	CP	$129.00	** PIPE, 150 MM (1.5 M LENGTHS)	{6",5'}
2200	MT	$6.63	PLIERS (NEEDLE NOSE)	
2210	MT	$8.00	PLIERS (SIDE CUTTER)	
2222	MT	$8.00	PLIERS (SLIP JOINT 200 MM)	{8"}
2240	MT	$6.25	PLIERS (VISE GRIP 250 MM)	{10"}
2250	MT	$10.00	PLIERS (WATER PUMP 250 MM)	{10"}
2260	CP	$1.00	* PLUGS (25.4 MM PVC THREADED)	{1"}
2265	CP	$2.50	PLUGS 100 MM BRASS PIPE	{4"}
2270	DT	$115.00	PLUG HOIST ("AW" CONN.)	
2280	DT	$20.00	* POINTS (POIN JAR 25.4 MM DIA. X 1 M LONG)	{1",3'}
2300	MT	$4.50	PUNCH, CENTER	
2310	MT	$4.84	PUNCH, DRIFT PIN P-3	
2312	MT	$3.89	PUNCH, DRIFT PIN 9.5 MM X 4.8 MM	{⅜", 3/16"}
2315	MT	$4.65	PUNCH, DRIFT PIN 11.1 MM X 5.6 MM	{7/16" X 7/32"}
2320	MT	$3.75	PUNCH, DRIFT PIN P-5	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2340	SA	$25.00	RETAINER, FLAP (44.5 MM)	{1¾"}
2351	SA	$1.00	RETAINER, PLASTIC (50.8 MM)	{2"}
2353	AU	$7.00	RETAINER, PLASTIC CME CUTTER HEAD (57.0 MM)	{2¼"}
2371	SA	$7.70	RETAINER, PLASTIC (88.9 MM)	{3½"}
2390	CP	$150.00	RETREAVER, PIPE ("AW" CONN.)	
2395	AU	$425.00	** RETREAVER, 57 MM AUGER	{2¼"}
2400	DT	$1.00	RING, "O" (N&N SWIVEL)	
2401	SA	$1.00	RING, "O" (HYD. SAMPLER)	
2403	AU	$1.00	RING, "O" 2-¼" CME AUGER	
2410	DT	$38.00	RING, DRIVE (63.5 MM JAR BAR)	{2½"}
2415	DT	$25.00	RING, DRIVE 63.5 MM MODIFIED JAR BAR	{2½"}
2420	DT	$48.00	RING, ROD ("AW")	
2430	DT	$69.00	RING, ROD ("NW") ***See Photo on Page 57.***	
2435	DB	$9.00	RING, EXPANDING FOR THIN WALL ADAPTOR	{4¼"}
2437	DB	$12.00	RING EXPANDING FOR THIN WALL ADAPTOR	{6¼"}
2480	RD	$50.00	* ROD, "25.4 MM" R.P.S. (1 M EACH)	{1", 3'}
2490	RD	$42.00	ROD, "AW" (0.3 M LENGTH EACH)	{1'}
2500	RD	$37.00	ROD, "AW" (0.6 M LENGTH EACH) ***See Photo on Page 78.***	{2'}
2510	RD	$51.00	ROD, "AW" (1.5 M LENGTH EACH)	{5'}
2520	RD	$89.00	ROD, "AW" (3.0 M LENGTH EACH)	{10'}
2525	RD	$118.00	ROD, "BW" (1.5 M LENGTH EACH) ***See Photo on Page 78.***	{5'}
2530	RD	$72.00	ROD, "NW" (0.6 M LENGTH EACH)	{2'}
2540	RD	$110.00	ROD, "NW" (1.5 M LENGTH EACH)	{5'}
2550	RD	$190.00	ROD, "NW" (3.0 M LENGTH EACH)	{10'}
2560	RD	$43.00	* ROD, PION JAR (25.4 MM DIA. X 1 M LONG)	{1" X 3'}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2565	AU	$43.00	ROD TO CAP 2.25 AW (21013) ***See Photo on Page 33.***	
2566	AU	$60.00	ROD TO CAP 4¼" AW CONN. ***See Photo on Page 33.***	
2580	RP	$45.00	* ROPE, MANILA (6 MM BALE)	{¼"}
2590	RP	$56.95	* ROPE, MANILA (13 MM BALE)	{½"}
2600	RP	$117.15	* ROPE, MANILA (19 MM BALE)	{¾"}
2605	RP	$210.00	ROPE, 19 MM NYLON BALE (FOR RAFT ANCHORS-L.M.)	{¾"}
2610	RP	$183.55	* ROPE, MANILA (25.4 MM BALE)	{1"}
2630	DT	$3.06	RULERS (2 M WOOD)	{6'}
2631	DT	$8.55	RULERS, METRIC (2 M)	
2660	SA	$144.00	SAMPLER (44.5 MM SOLID) ***See Photo on Page 84.***	{1¾"}
2670	SA	$125.00	SAMPLER (50.8 MM H.D. SPLIT-WITH PLUG)	{2"}
2690	SA	$110.00	SAMPLER (50.8 MM LYNAC) ***See Photo on Page 84.***	{2"}
2720	SA	$150.00	SAMPLER (76.2 MM SPLIT) ***See Photo on Page 84.***	{3"}
2730	SA	$236.00	SAMPLER (88.9 MM SPLIT FOR LINER) ***See Photo on Page 84.***	{3½"}
2740	SA	$350.00	SAMPLER (88.9 MM SOLID 1 M LONG)	{3½", 36"}
2750	SA	$165.00	* SAMPLER (STATIONARY PISTON 76.2 MM)	{3"}
2760	SA	$118.00	* SAMPLER (STATIONARY PISTON 88.9 MM)	{3½"}
2770	HT	$7.83	SAW (BOW 0.6 M)	{24"}
2780	HT	$15.00	SAW (CARPENTER)	
2790	SA	$1.30	SCREW (SHELBY HEAD)	
2802	MT	$5.00	SCREWDRIVER, 100 MM BLADE	{4"}
2804	MT	$5.00	SCREWDRIVER, 150 MM BLADE	{6"}
2805	MT	$3.00	SCREWDRIVER (CABINET TYPE)	
2806	MT	$10.00	SCREWDRIVER, 200 MM BLADE	{8"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
2812	MT	$3.00	SCREWDRIVER, PHILIPS 2 PT. 25 MM SHORT	{1"}
2814	MT	$1.36	SCREWDRIVER, PHILIPS 2 PT. 100 MM SHORT	{4"}
2820	DT	$20.00	* SHANK (PION JAR IMPACT)	
2830	HT	$25.13	SHEARS (LOPPING)	
2840	CB	$32.00	SHELL, REAMING ('AWX' BLANK ST)	
2850	CB	$43.00	SHELL, REAMING ('BWX' BLANK ST)	
2860	CB	$43.50	SHELL, REAMING ('NWX' BLANK ST)	
2870	CB	$63.00	SHELL, REAMING ('HX' BLANK ST)	
2875	CB	$124.00	SHELL, REAMING AW34 ***See Photo on Page 41.***	
2880	CB	$40.50	SHELL, REAMING ('AWX' BLANK DT)	
2890	CB	$49.00	SHELL, REAMING ('BWX' BLANK DT)	
2895	CB	$43.50	SHELL, REAMING (NWD-4,76.2 MM)	{3"}
2900	CB	$40.00	SHELL, REAMING ('NWX' BLANK DT)	
2910	CB	$43.00	SHELL, REAMING ('AWM' BLANK)	
2920	CB	$35.50	SHELL, REAMING ('BWM' BLANK)	
2930	CB	$29.00	SHELL, REAMING ('NWM' BLANK)	
2932	CB	$129.00	SHELL, REAMING (NWD-4) ***See Photo on Page 41.***	
2935	CP	$45.55	** SHOE, DRIVE ("AW"CASING)	
2940	CP	$46.00	SHOE, DRIVE ("BW"CASING) ***See Photo on Page 48.***	
2955	CP	$58.00	SHOE, DRIVE ("NW"CASING)	
2960	CP	$79.00	SHOE, DRIVE ("HW"CASING)	
2963	CP	$115.00	** SHOE, DRIVE ("PW"CASING)	
3000	CP	$49.00	SHOE, PIPE (63.5 MM) ***See Photo on Page 48.***	{2½"}
3010	CP	$64.00	SHOE, PIPE (101.6 MM)	{4"}
3020	SA	$30.00	SHOE, SAMPLER (76.2 MM)	{3"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3030	SA	$29.00	SHOE, SAMPLER (88.9 MM)	{3½"}
3040	HT	$10.00	SHOVEL, LONG HANDLE ROUND POINT	
3050	HT	$10.00	SHOVEL, LONG HANDLE SQUARE POINT	
3060	HT	$10.00	SHOVEL, SHORT HANDLE ROUND POINT	
3070	HT	$10.00	SHOVEL, SHORT HANDLE SQUARE POINT	
3071	AU	$94.00	SLIPS, ROD AW, 2¼" I.D. AUGER ***See Photo on Page 33.***	
3074	AU	$150.00	SLIPS, ROD AW, 4¼" I.D. AUGER ***See Photo on Page 33.***	
3075	MT	$2.60	SOCKET, ⅜", ½" DRIVE	
3076	MT	$2.60	SOCKET, 7/16", ½" DRIVE	
3077	MT	$2.60	SOCKET, ½", ½" DRIVE	
3078	MT	$2.60	SOCKET, 9/16", ½" DRIVE	
3079	MT	$2.60	SOCKET, ⅝", ½" DRIVE	
3080	MT	$2.95	SOCKET, ¾" SPARK PLUG ½" DRIVE	
3081	MT	$2.60	SOCKET, ¾', ½' DRIVE	
3090	MT	$8.00	SOCKET, ⅞" SPARK PLUG ½" DRIVE	
3100	MT	$8.00	SOCKET, 13/16" SPARK PLUG ½" DRIVE	
3102	MT	$5.05	SOCKET, 1" SPARK PLUG ½" DRIVE	
3104	MT	$5.85	SOCKET, 1-1/16" SPARK PLUG ½" DRIVE	
3106	MT	$5.85	SOCKET, 1⅛" SPARK PLUG ½" DRIVE	
3108	MT	$5.31	SOCKET, 1⅛' ¾' DRIVE	
3114	HT	$1.80	SPRINGS, 450 MM PIPE WRENCH (SETS)	{18"}
3115	HT	$1.90	SPRINGS, 600 MM PIPE WRENCH (SETS)	{4"}
3160	HT	$.50	* STAKES (25 MM X 25 MM X 1.2 M)	{1" X 1" X 48"}
3190	HT	$.20	STAKES, WIRE (600 M)	{2'}
3205	HT	$5.00	STRAP, SAFETY (GAS CAN)	
3210	SB	$46.00	SUB ("AW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
3215	SB	$59.00	SUB ("AW" ROD BOX TO "A" ROD PIN)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3220	SB	$65.00	SUB ("AW" ROD BOX TO "BW" CASING PIN)	
3225	SB	$40.00	SUB ("AW" ROD BOX TO "BX" CASING PIN	
3230	SB	$42.00	SUB ("AW" ROD BOX TO "BW" ROD PIN)	
3232	SB	$75.00	SUB ("AW" ROD BOX TO "BW" ROD BOX)	
3233	SB	$75.00	SUB ("AW" ROD BOX TO "NW" ROD BOX)	
3250	SB	$58.00	SUB ("AW" ROD BOX TO "NW" ROD PIN) ***See Photo on Page 89.***	
3260	SB	$25.00	SUB ("AW" ROD BOX TO "NX" CASING PIN)	
3265	SB	$70.00	SUB ("AW" ROD BOX TO "NW" CASING PIN)	
3290	SB	$65.00	SUB ("AW" ROD BOX TO 100 MM X 178 MM THREAD PIN)	{1¼" X 7"}
3302	SB	$75.00	SUB ("AW" ROD PIN TO "NW" ROD PIN)	
3310	SB	$90.00	SUB ("BW" CASING BOX TO "AW" ROD PIN)	
3314	SB	$65.00	SUB ("BW" CASING BOX TO "NW" CASING PIN)	
3315	SB	75.00	SUB ("BW" CASING BOX TO "NW" ROD PIN)	
3320	SB	$85.00	SUB ("BW" CASING PIN TO 63.5 MM PIPE PIN)	{2½"}
3325	SB	$54.00	SUB ("NW" CASING BOX TO "NX" CASING BOX)	
3327	SB	$56.59	SUB ("NW" CASING BOX TO "NX" CASING PIN)	
3330	SB	$54.00	SUB ("NW" ROD BOX TO "AW" ROD PIN) ***See Photo on Page 89.***	
3331	SB	$78.00	SUB ("NW" ROD BOX TO "BW" CASING PIN)	
3332	SB	$75.95	SUB ("AW" ROD BOX TO BW ROD BOX)	
3340	SB	$65.50	SUB ("NW" ROD BOX TO "N" ROD PIN)	
3345	SB	$71.00	SUB ("NW" ROD BOX TO "NW" CASING PIN)	
3350	SB	$34.00	SUB ("NW" ROD BOX TO "NX" CASING PIN)	
3360	SB	$90.00	SUB ("NW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
3370	SB	$89.00	SUB ("NW" ROD BOX TO "HW" CASING PIN)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3380	SB	$105.00	SUB ("NW" ROD BOX 60.3 MM A.P.I.)	{2⅜"}
3390	SB	$160.00	SUB ("NW" ROD BOX TO 88.9 MM A.P.I.)	{3½"}
3400	SB	$60.00	SUB (31.8 MM X 178 MM THREAD BOX TO "AW" ROD PIN)	{1¼", 7"}
3402	SB	$50.00	SUB (31.8 MM X 178 MM THREAD PIN TO 31.8 MM X 178 MM THREAD PIN)	
3405	SB	$68.10	SUB (41.3 MM HEX PIN TO NW" ROD PIN)	{1⅝"}
3410	SB	$129.00	SUB ("HW" CASING PIN TO 101.6 MM PIPE PIN)	{4"}
3417	SB	$150.00	"NW" ROD BOX TO "PW" CASING PIN	
3420	DT	$450.00	SWIVEL, WATER (KING TYPE)	
3430	DT	$175.00	SWIVEL, WATER (PLAIN TYPE)	
3435	DT	$309.50	SWIVEL, WATER-SIDE FEED ***See Photo on Page 58.***	
3439	AU	$91.00	"T", 57.1 MM AUGER ***See Photo on Page 33.***	{2¼"}
3440	CP	$85.00	"T", "BW" CASING ***See Photo on Page 48.***	
3444	CP	$82.00	"T", "NW" CASING ***See Photo on Page 48.***	
3445	CP	$105.00	"T", "HW" CASING ***See Photo on Page 48.***	
3446	CP	$6.50	"T", 63.5 MM PIPE	{2½"}
3450	CP	$9.65	"T", 101.6 MM PIPE	{4"}
3452	CP	$11.75	"T", 152.4 MM PIPE	{6"}
3455	HT	$20.00	TANK, PROPANE (9 KG)	{20 LB}
3470	DT	$133.70	TAP (FISHING "AW" COUP. I.D.)	
3480	DT	$132.95	TAP (FISHING "AW" COUP. O.D.)	
3490	DT	$133.70	TAP (FISHING "AW" ROD I.D.)	
3500	DT	$138.40	TAP (FISHING "AW" ROD O.D.)	
3510	DT	$78.00	TAP (FISHING "NW" COUP. I.D.)	
3520	DT	$90.00	TAP (FISHING "NW" COUP. O.D.)	
3530	DT	$169.55	TAP (FISHING "NW" DRILL ROD I.D.)	
3540	DT	$242.70	TAP (FISHING "NW" DRILL ROD O.D.)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3545	AU	$35.15	TAP, INSERT (CME AUGER) ***See Photo on Page 32.***	
3560	DT	$.79	TAPE (PLASTIC)	
3570	HT	$45.50	TARP (PLASTIC 2.4 M X 3 M)	{8' X 10'}
3575	HT	$105.00	TARP, TRUCK (4.3 M X 4.9 M)	{14' X 16'}
3580	HT	$146.25	TORCH (PROPANE COMPLETE)	
3587	CB	$185.00	** TUBE, INNER (CHRISTENSEN) NWD-4	
3590	CB	$86.00	TUBE, INNER ("AWX" 1.5 M)	{5'}
3600	CB	$95.00	TUBE, INNER ("BWX" 1.5 M)	{5'}
3605	CB	$279.75	** TUBE, INNER (CHRISTENSEN SPLIT)	
3610	CB	$115.00	TUBE, INNER ("NWX" 1.5 M)	{5'}
3615	CB	$150.00	CB TUBE, INNER (AW-34) ***See Photo on Page 42.***	
3620	CB	$84.00	TUBE, INNER ("AWM" 1.5 M)	{5'}
3630	CB	$101.00	TUBE, INNER ("BWM" 1.5 M)	{5'}
3640	CB	$90.00	TUBE, INNER ("NWM" 1.5 M)	{5'}
3650	CB	$80.00	TUBE, OUTER ("AWX" 1.5 M)	{5'}
3655	CB	$100.00	TUBE, OUTER (AW-34 1.52 M) ***See Photo on Page 42.***	{5'}
3660	CB	$99.00	TUBE, OUTER ("BWX" 1.5 M)	{5'}
3670	CB	$88.00	TUBE, OUTER ("NWX" 1.5 M)	{5'}
3680	CB	$83.00	TUBE, OUTER ("AWM" 1.5 M)	{5'}
3690	CB	$104.00	TUBE, OUTER ("BWM" 1.5 M)	{5'}
3700	CB	$108.50	TUBE, OUTER ("NWM" 1.5 M)	{5'}
3705	CB	$260.00	TUBE, OUTER "NW" (D-4 CHRISTENSEN)	
3710	DT	$1.52	TUBE, LEXAN (FOR "Z" GUAGE L.M.)	
3717	AU	$200.00	UNIVERSAL (40 MM HEX PIN TO 40 MM HEX SOCKET) CME	{1⅝", 1⅝"}
3718	DT	$205.00	UNIVERSAL (40 MM HEX SOCKET TO 40 MM HEX SOCKET) 20 MG	{1⅝" TO 1⅝"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3720	SA	$20.00	TUBE, SHELBY (88.9 MM) *See Photo on Page 85.*	{3½"}
3721	DT	$15.00	VALVE, CHECK (BRASS 25.4 MM)	{1"}
3730	DT	$13.00	VALVE (BALL COCK 25.4 MM)	{1"}
3735	DT	$18.00	VALVE (BALL COCK 38.1 MM)	{1½"}
3740	HT	$15.95	VALVE, DEMAND (PROPANE)	
3755	HO	$17.79	VALVE, FOOT (38.1 MM-BRASS)	{1½"}
3763	HO	$37.99	VALVE, FOOT (50.8 MM BRASS)	{2"}
3766	PI	$7.55	*** VEST, SAFETY	
3767	PI	$25.00	** VEST, FLOATING	
3770	DT	$100.00	VISE (PIPE 100 MM CAPACITY)	{4"}
3780	SA	$1.60	WAX (MIXED KG)	
3785	RD	$21.95	** WIPERS, RUBBER ("NW" ROD)	
3790	MT	$15.00	WRENCH, ALLEN (SET)	
3800	MT	$2.10	WRENCH, ALLEN (¼")	
3810	HT	$22.00	WRENCH (CHAIN 300 MM)	{12"}
3820	HT	$42.09	WRENCH (CHAIN 450 MM)	{18"}
3830	HT	$40.00	WRENCH (CHAIN 600 MM)	{24"}
3840	HT	$101.48	WRENCH (CHAIN 1 M)	{36"}
3850	MT	$6.25	WRENCH (CRESCENT 150 MM)	{6"}
3860	MT	$9.00	WRENCH (CRESCENT 200 MM)	{8"}
3870	MT	$12.70	WRENCH (CRESCENT 300 MM)	{12"}
3880	DT	$14.73	WRENCH, CHUCK (S&H 19.1 MM)	{¾"}
3890	HT	$8.69	WRENCH, 200 MM PIPE	{8"}
3900	HT	$12.80	WRENCH, 350 MM PIPE	{14"}
3910	HT	$19.75	WRENCH, 450 MM PIPE	{18"}
3920	HT	$31.50	WRENCH, 600 MM PIPE	{24"}
3930	HT	$61.75	WRENCH, 1 M PIPE	{36"}

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
3936	MT	$4.75	WRENCH, OPEN END BOX COMBO (¼")	
3937	MT	$11.60	WRENCH, OPEN END BOX COMBO (5/16")	
3938	MT	$5.00	WRENCH, OPEN END BOX COMBO (⅜")	
3939	MT	$6.19	WRENCH, OPEN END BOX COMBO (7/16")	
3940	MT	$5.40	WRENCH, OPEN END BOX COMBO (½")	
3950	MT	$5.85	WRENCH, OPEN END BOX COMBO (9/16")	
3951	MT	$7.30	WRENCH, OPEN END BOX COMBO (⅝")	
3952	MT	$7.10	WRENCH, OPEN END BOX COMBO (11/16")	
3953	MT	$8.65	WRENCH, OPEN BOX COMBO (¾")	
3954	MT	$9.98	WRENCH, OPEN END BOX COMBO (⅞")	
3960	MT	$12.59	WRENCH, OPEN END BOX COMBO (15/16")	
3961	MT	$13.10	WRENCH, OPEN END BOX (1")	
3962	MT	$16.20	WRENCH, OPEN END BOX (1-1/16")	
3963	MT	$18.70	WRENCH, OPEN END BOX (1⅛")	
3964	MT	$26.65	WRENCH, OPEN END BOX (1¼")	
3980	MT	$14.35	WRENCH, RATCHET (½" DRIVE)	
3985	MT	$37.70	WRENCH, RATCHET (¾" DRIVE)	
3990	MT	$60.57	WRENCH, SOCKET SET (½" DRIVE)	
4000	DB	$121.00	"AW" CORING SURFACE SET (FINE)	
4005	DB	$127.50	"AW" CORING SURFACE SET (COARSE)	
4010	DB	$150.00	"AW" CORING (IMPREGNATED)	
4015	DB	$135.50	"AXM" CORING SURFACE SET (COARSE)	
4020	DB	$235.00	"AW-34" CORING SURFACE SET (COARSE)	
4025	DB	$190.00	"AW-34" CORING (IMPREGNATED)	
4026	DB	$200.00	"AW-34" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
4028	DB	$200.00	"AW-34" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
4030	DB	$160.00	"BW" CORING SURFACE SET (FINE)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
4035	DB	$165.00	"BW" CORING SURFACE SET (COARSE)	
4038	DB	$250.00	"BW" CORING (IMP.) COPPER HOFFMAN (VERY HARD FORMATIONS)	
4039	DB	$250.00	"BW" CORING (IMP.) HOFFMAN (TAN) VERY HARD FORMATIONS	
4040	DB	$193.00	"BW" CORING (IMPREGNATED)	
4045	DB	$200.00	"BXM" CORING SURFACE SET (COARSE)	
4050	DB	$200.00	"BX" CASING SHOE SURFACE SET (COARSE)	
4055	DB	$200.00	"BX" CASING SHOE (IMPREGNATED)	
4060	DB	$175.00	"BW" CASING SHOE SURFACE SET (COARSE)	
4065	DB	$193.00	"BW" CASING SHOE (IMPREGNATED)	
4070	DB	$215.00	"NW" CORING SURFACE SET (FINE)	
4075	DB	$215.00	"NW" CORING SURFACE SET (COARSE)	
4077	DB	$250.00	"NW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
4078	DB	$250.00	"NW" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
4079	DB	$400.00	"NW" CORING (IMP.) CHRISTENSEN (BLACK) EXTREMELY HARD ROCK	
4080	DB	$244.00	"NW" CORING (IMPREGNATED)	
4081	DB	$278.00	NWD-4 DIAMOND BIT (COPPER)	
4085	DB	$215.00	"NXM" CORING SURFACE SET (COARSE)	
4090	DB	$200.00	"NX" CASING SHOE SURFACE SET (COARSE)	
4095	DB	$200.00	"NX" CASING SHOE (IMPREGNATED)	
4100	DB	$245.00	"NW" CASING SHOE SURFACE SET (COARSE)	
4105	DB	$250.00	"NW" CASING SHOE (IMPREGNATED)	
4110	DB	$290.00	"NWD-3" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
4115	DB	$250.00	"NWD-4" CORING SURFACE SET (COARSE) (CHRISTENSEN)	

CATALOG NUMBER	GROUP	COST OF 1 ITEM	DESCRIPTION	
4116	DB	$198.00	"NWD-4" CORING SURFACE SET (FINE) (CHRISTENSEN)	
4119	DB	$220.00	"NWD-4" CORING (IMP.) CHRISTENSEN (TAN) HARD ROCK	
4120	DB	$350.00	"NWD-4" CORING (IMPREGNATED) (CHRISTENSEN)	
4125	DB	$456.00	"NQ-2" CORING (IMPREGNATED) (WIRELINE)	
4130	DB	$285.00	"HW" CORING SURFACE SET (FINE)	
4135	DB	$300.00	"HW" CORING SURFACE SET (COARSE)	
4139	DB	$300.00	"HW" CORING (IMP.) HOFFMAN VERY HARD FORMATIONS	
4140	DB	$295.00	"HW" CORING (IMPREGNATED)	
4141	DB	$300.00	"HW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
4145	DB	$275.00	"HW" CASING SHOE SURFACE SET (COARSE)	
4150	DB	$290.00	"HW" CASING SHOE (IMPREGNATED)	
4151	DB	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (COPPER HARD ROCK)	
4152	DB	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (TAN) HARD ROCK	
4160	PB	$70.00	2½" THIN WALL BITS SURFACE SET (COARSE)	
4163	PB	$125.00	4¼" THIN WALL BITS SURFACE SET (COARSE)	
4165	PB	$128.00	4¼" THIN WALL BITS (IMPREGNATED)	
4170	PB	$200.00	6¼" THIN WALL BITS (IMPREGNATED)	
4175	PB	$181.00	6¼" THIN WALL BITS SURFACE SET (COARSE)	

AUGERS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
AU	105	$114.00	BAR, 41 MM HEX, AUGER EXT. ***See Photo on Page 28.***	{1⅝"}
AU	575	$4.90	BLADES (CUTTER FOR CME) ***See Photo on Page 29.***	
AU	580	$10.00	BLADES (CUTTER FOR MOBILE-EA.)	
AU	595	$20.00	CENTER HEAD ASSEMBLY FOR PILOT	{2¼"}
AU	596	$30.00	CENTER HEAD ASSEMBLY FOR PILOT	{4¼"}
AU	626	$3.50	BOLT DRIVE CAP W/NUT (21011)	
AU	628	$2.90	BOLTS (FOR CME AUGERS) ***See Photo on Page 29.***	
AU	630	$2.00	BOLTS (FOR MOBILE CUTTER BLADES-EA.)	
AU	775	$137.00	CAPS, DRIVE (CME) 57 MM AUGER ***See Photo on Page 29.***	{2¼"}
AU	777	$222.00	CAPS, DRIVE (CME) 1088 MM AUGER ***See Photo on Page 29.***	{4¼"}
AU	1383	$190.00	FLIGHTS (57 MM HOL. 0.6 M LENGTHS) ***See Photo on Page 30.***	{2¼", 2'}
AU	1384	$242.00	FLIGHTS (57 MM X 159 MM HOL. 1.5 M LENGTHS) ***See Photo on Page 30.***	{2¼", 6¼", 5}
AU	1386	$357.00	FLIGHTS ***See Photo on Page 30.***	{4¼",8",5'}
AU	1389	$200.00	FLIGHTS (86 MM X 210 MM HOL. 0.6 M LENGTHS)	{3⅜", 8¼", 2'}
AU	1390	$325.00	FLIGHTS (86 MM HOL. 1.5 M LENGTHS-MOBILE)	{3⅜", 5'}
AU	1400	$175.00	FLIGHTS (100 MM SOL.,1.5 M LENGTHS-MOBILE)	{4", 5'}
AU	1413	$175.00	FORK, AUGER ***See Photo on Page 31.***	{4¼"}
AU	1414	$45.00	FORK, AUGER 57 MM HSA ***See Photo on Page 31.***	{2¼"}
AU	1415	$6.00	FUNNEL (JUST-RITE, POUR)-GREY OR YELLOW	
AU	1532	$29.20	HAMMER, POINTED (FOR C.M.E.) ***See Photo on Page 32.***	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
AU	1629	$198.00	HEAD, ADAPTOR (C.M.E. FLIGHTS)	
AU	1630	$250.00	HEAD, ADAPTOR (MOBILE FLIGHTS)	
AU	1635	$203.00	HEAD, CUTTER (57.2 MM CME) ***See Photo on Page 31.***	{2¼"}
AU	1637	$230.00	HEAD, CUTTER {108 MM CME} ***See Photo on Page 31.***	{4¼}
AU	1690	$421.00	HEAD CUTTER, MOBILE FLIGHT (BLADE TYPE (158.8 MM X 57.1 MM)	{3⅜", 8¼"}
AU	1735	$35.00	HOOK, HOISTING (CME AUGER) ***See Photo on Page 32.***	
AU	1785	$2.25	INSERT, THREADED (CME-AUGER)	
AU	2103	$125.00	PILOT ASSY. 2.25 AW (21018) ***See Photo on Page 30.***	
AU	2104	$257.00	PILOT ASSEMBLY ***See Photo on Page 30.***	{4¼"}
AU	2115	$2.90	PIN, DRIVE (CME AUGER) ***See Photo on Page 32.***	
AU	2353	$7.00	RETAINER, PLASTIC CME CUTTER HEAD (57.0 MM)	{2¼"}
AU	2395	$425.00	** RETREAVER, 57 MM AUGER	{2¼"}
AU	2403	$1.00	RING, "O" 2-¼" CME AUGER	
AU	2565	$43.00	ROD TO CAP 2.25 AW (21013) ***See Photo on Page 33.***	
AU	2566	$60.00	ROD TO CAP 4¼" AW CONN. ***See Photo on Page 33.***	
AU	3071	$94.00	SLIPS, ROD AW 2¼" I.D. AUGER ***See Photo on Page 33.***	
AU	3074	$150.00	SLIPS, ROD AW 4¼" I.D. AUGER ***See Photo on Page 33.***	
AU	3439	$91.00	"T", 57.1 MM AUGER ***See Photo on Page 33.***	{2¼"}
AU	3545	$35.15	TAP, INSERT (CME AUGER) ***See Photo on Page 32.***	
AU	3717	$200.00	UNIVERSAL (40 MM HEX PIN TO 40 MM HEX SOCKET) CME	{1⅝", 1⅝"}

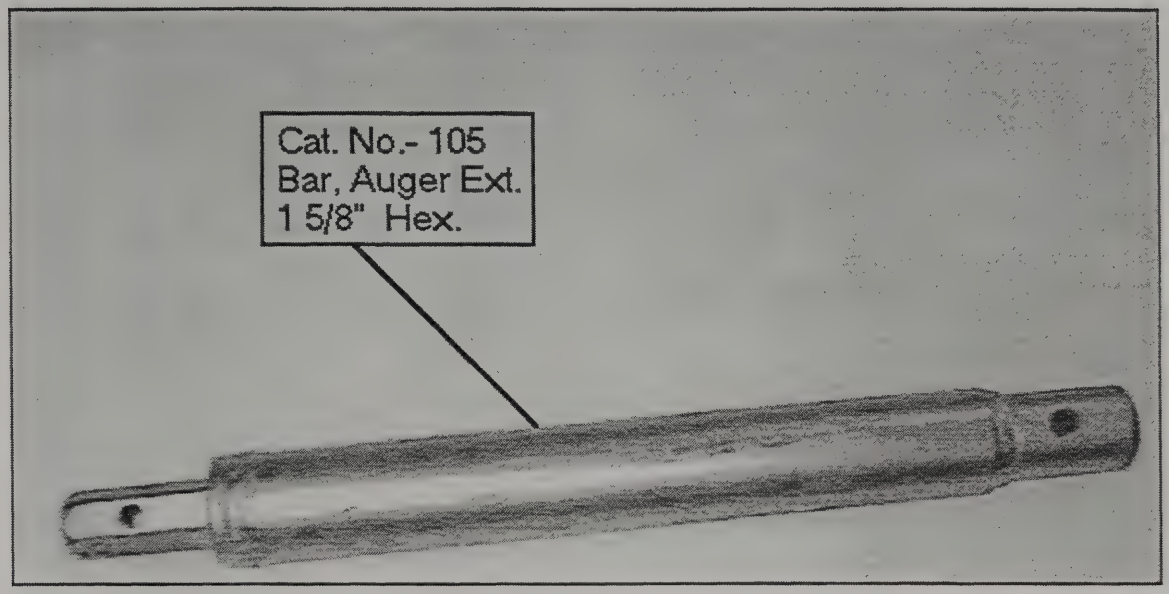
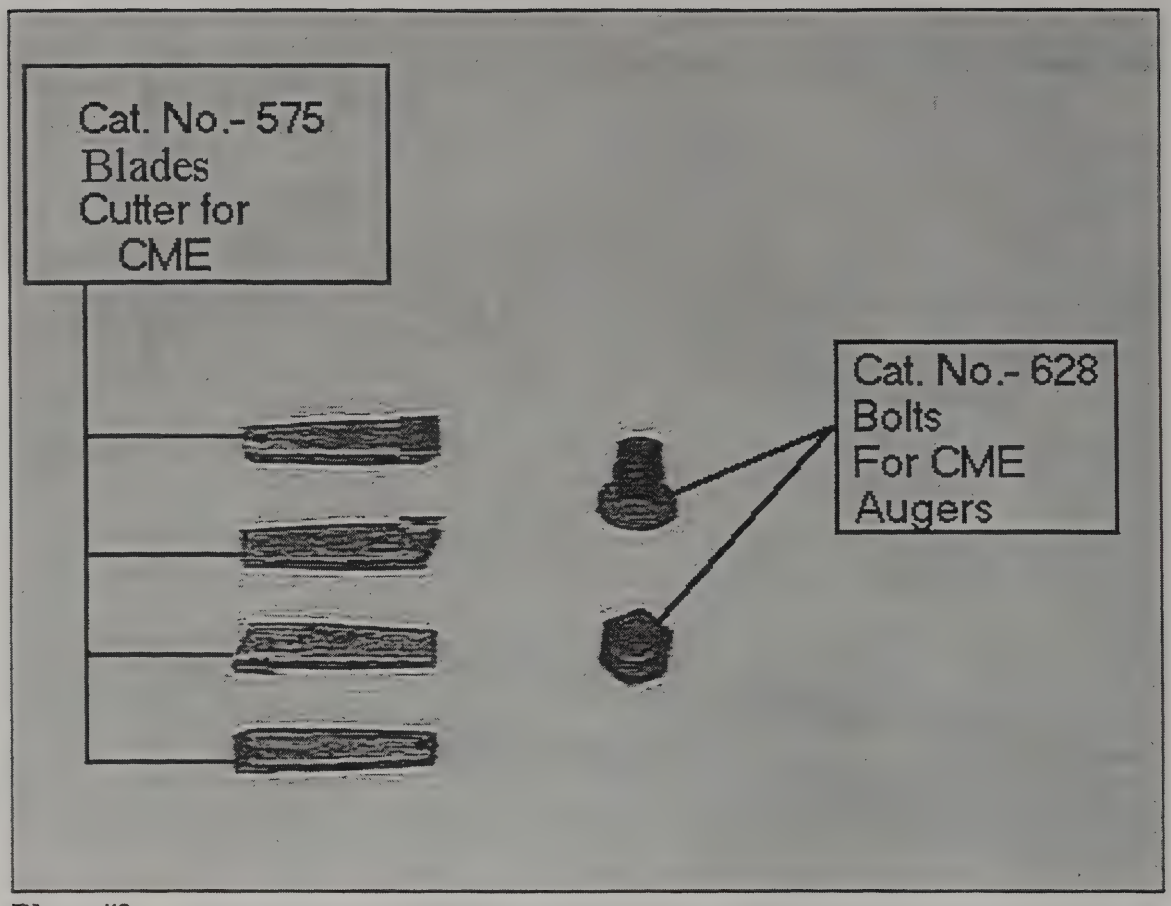


Photo #1



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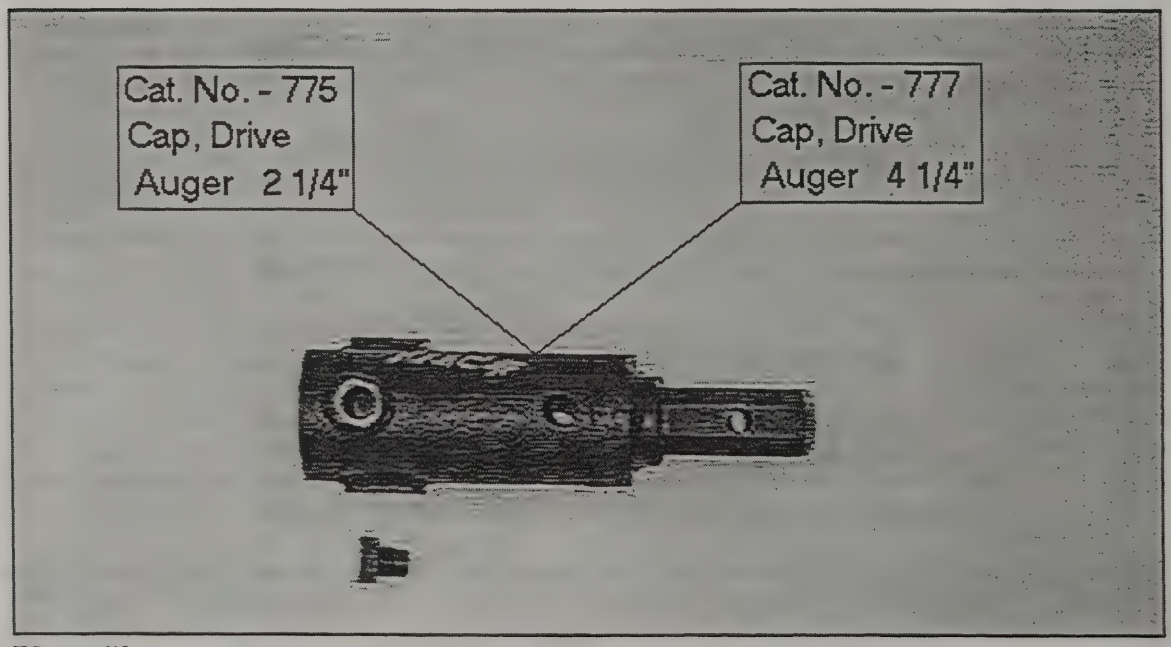

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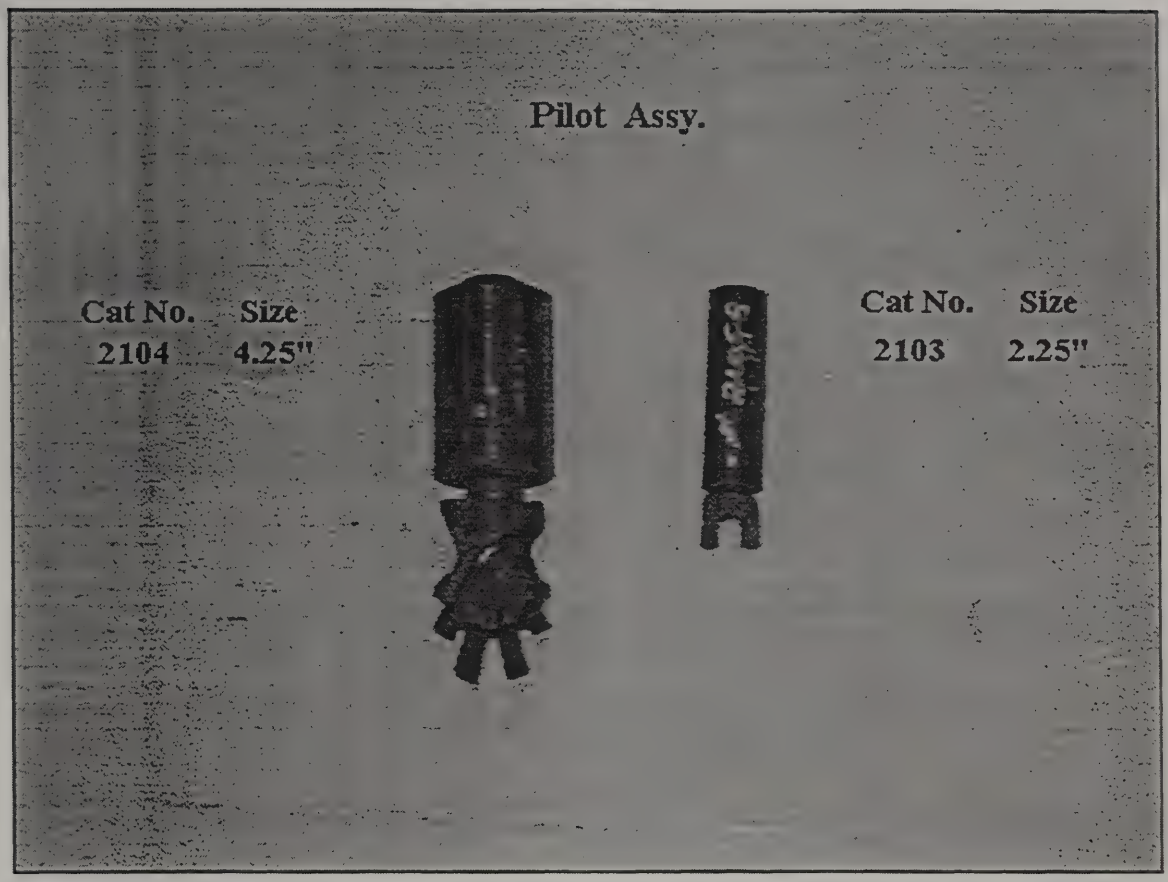

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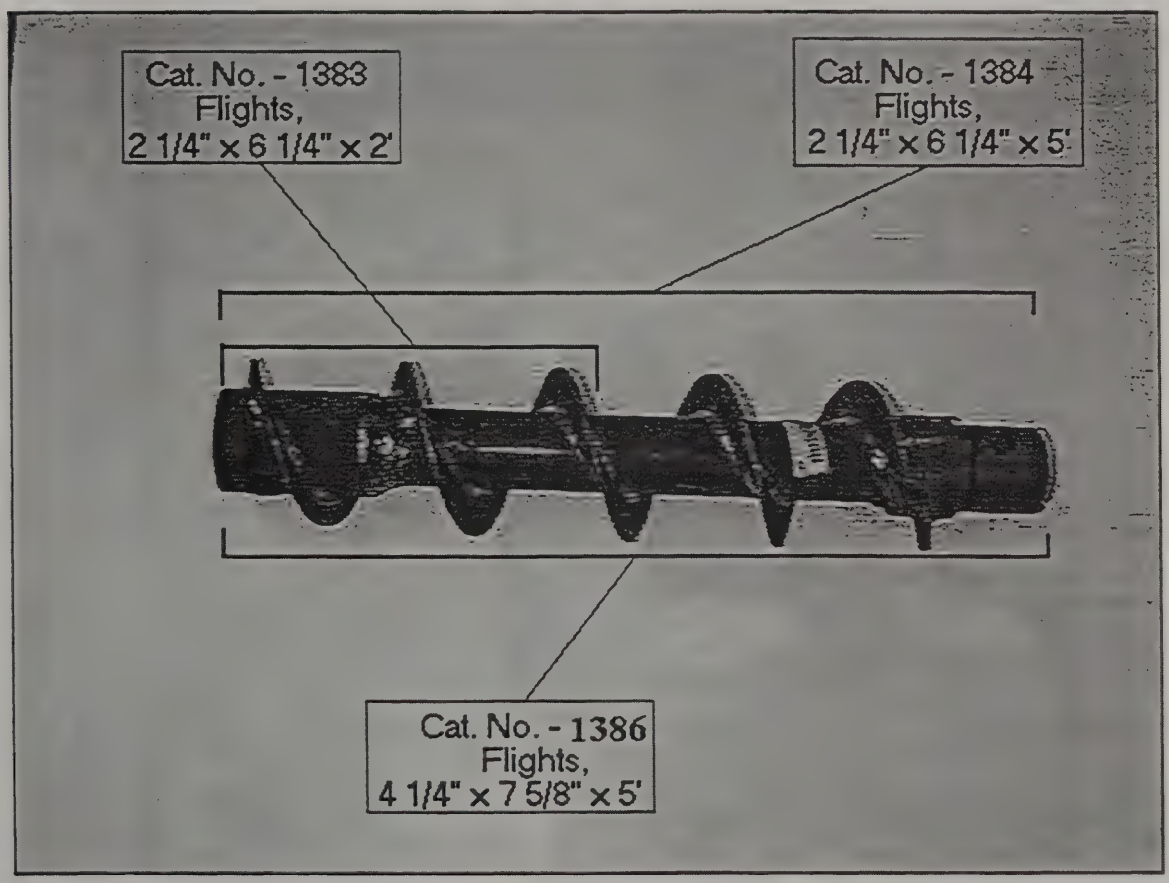
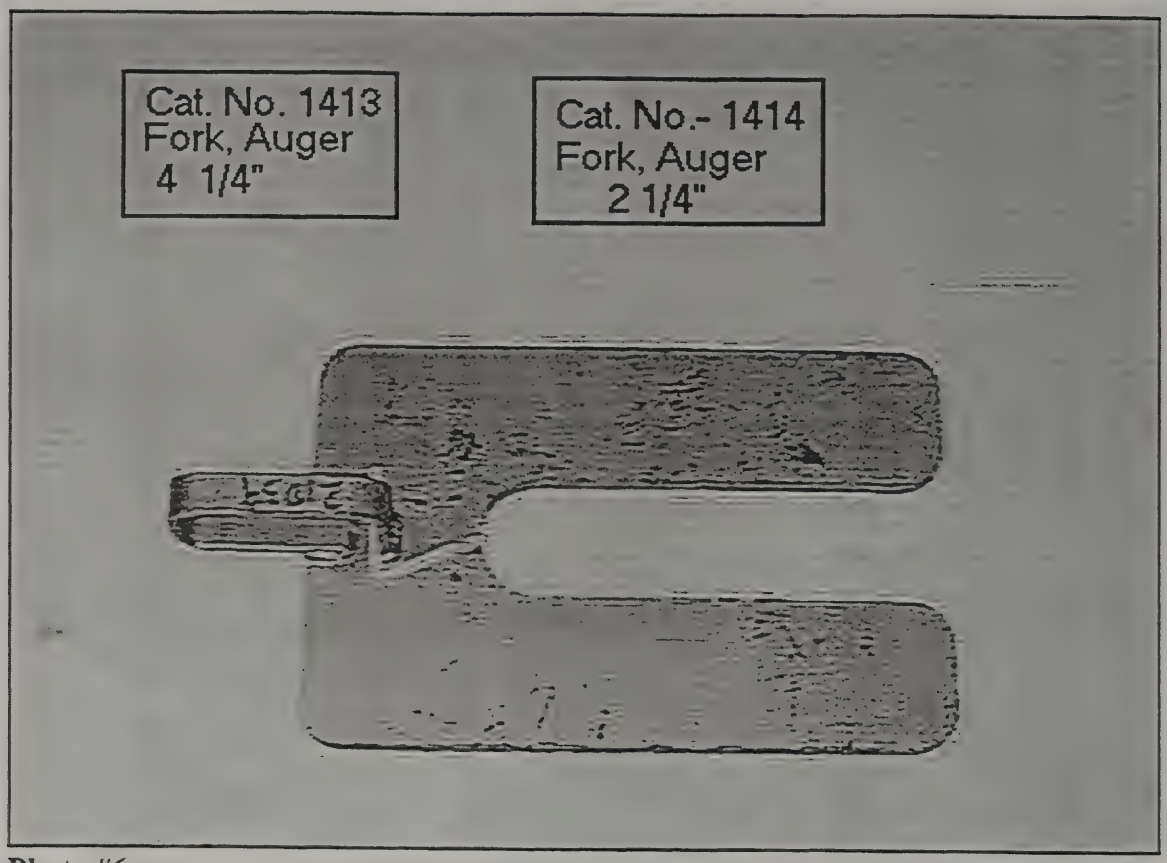


Photo #5



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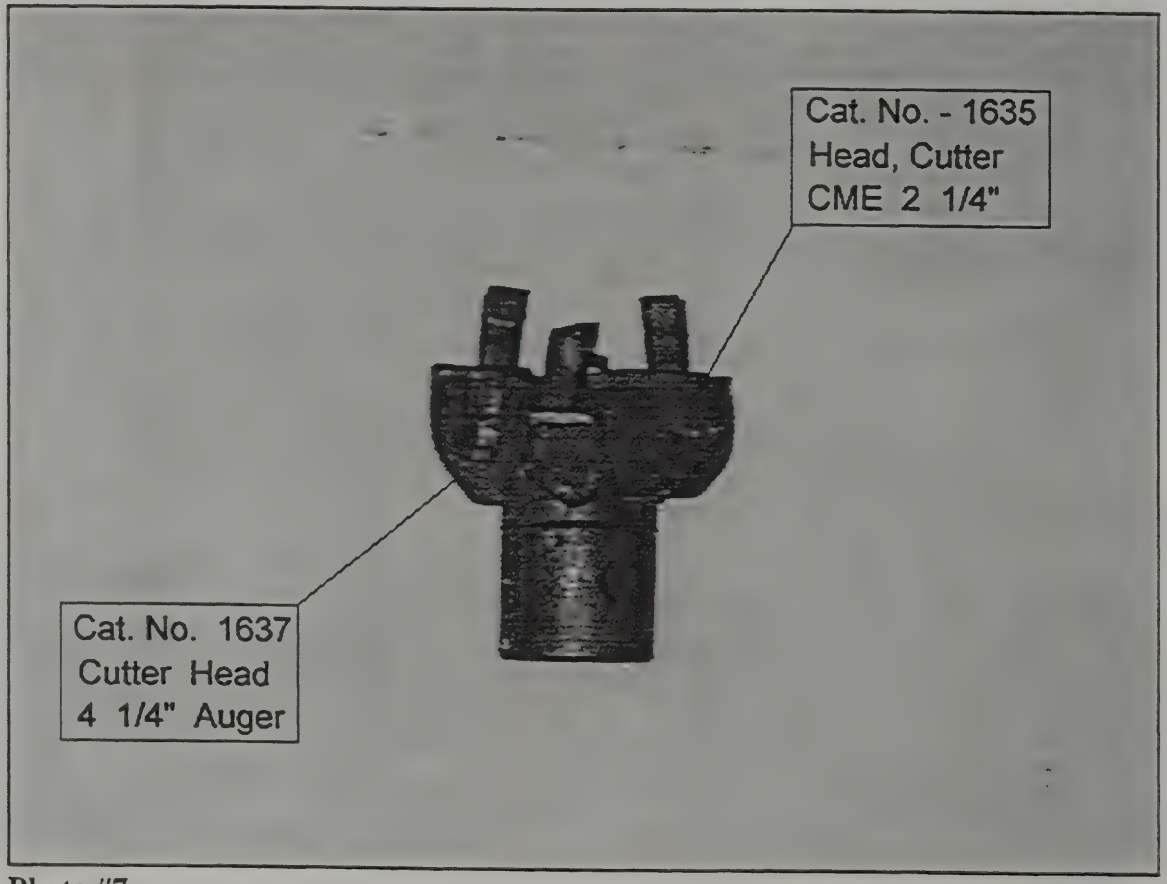

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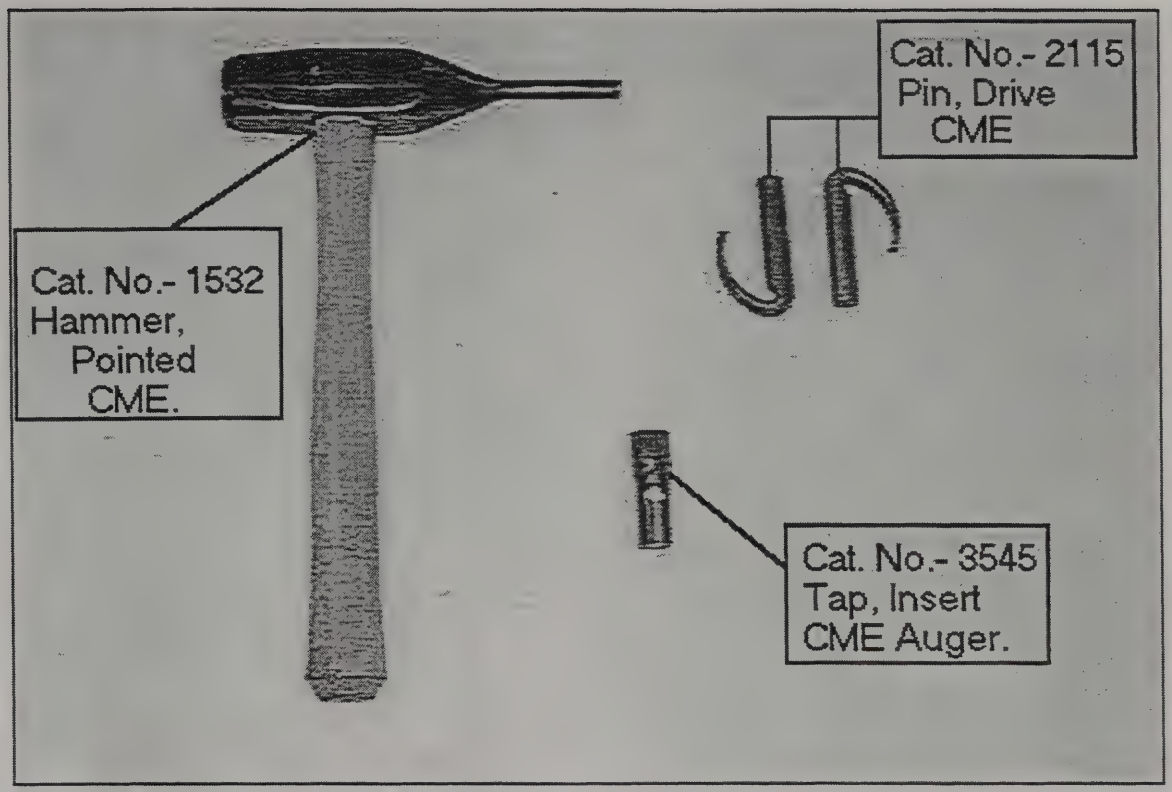

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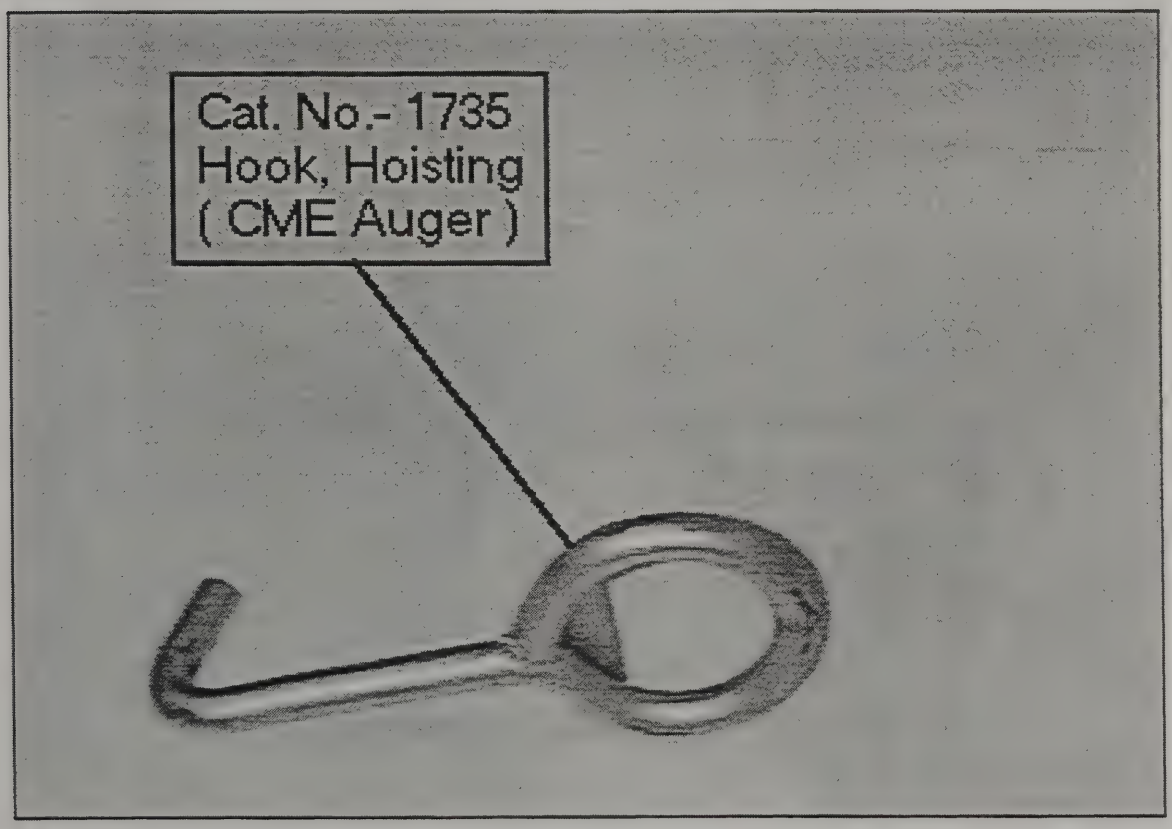
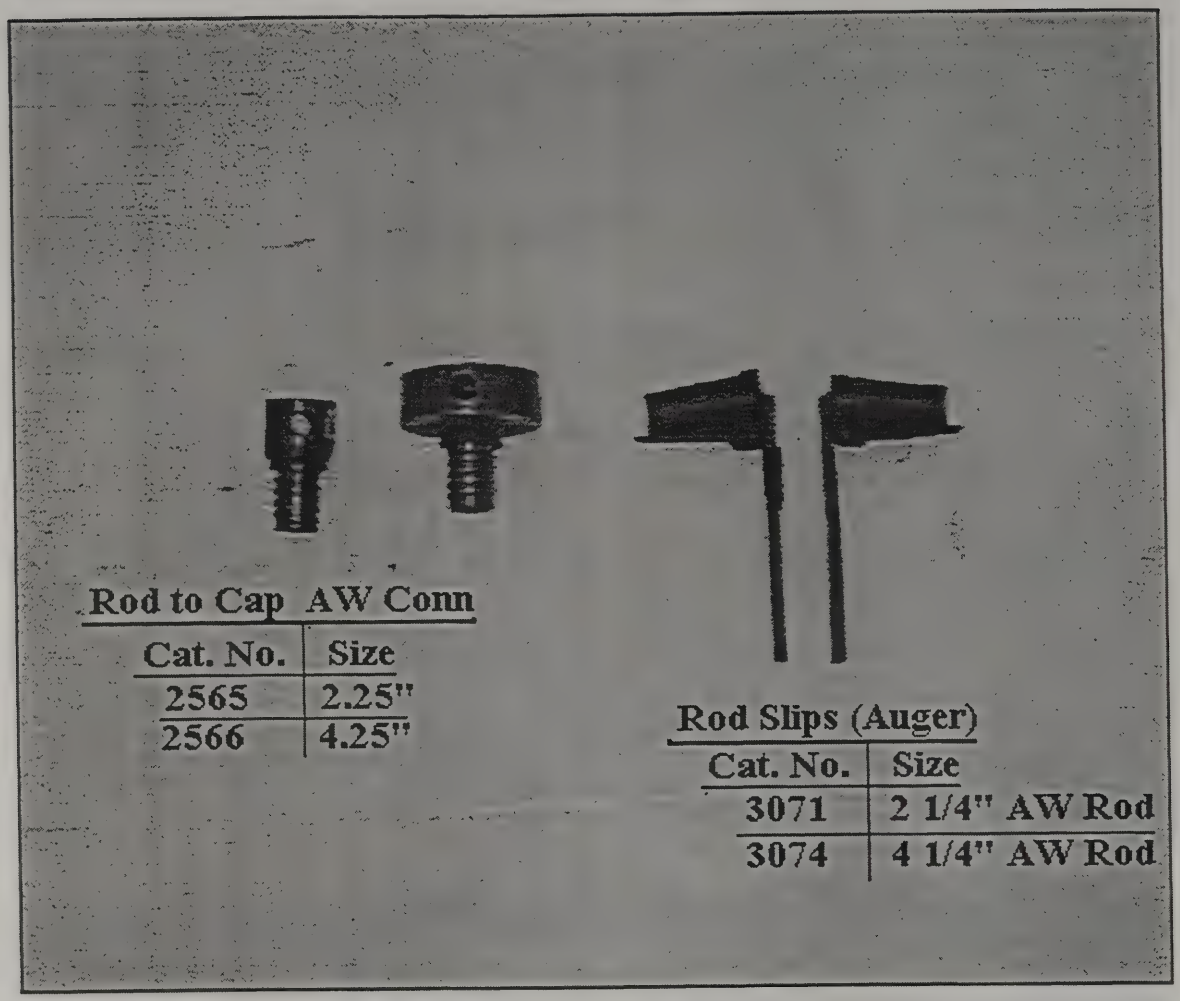


Photo #9



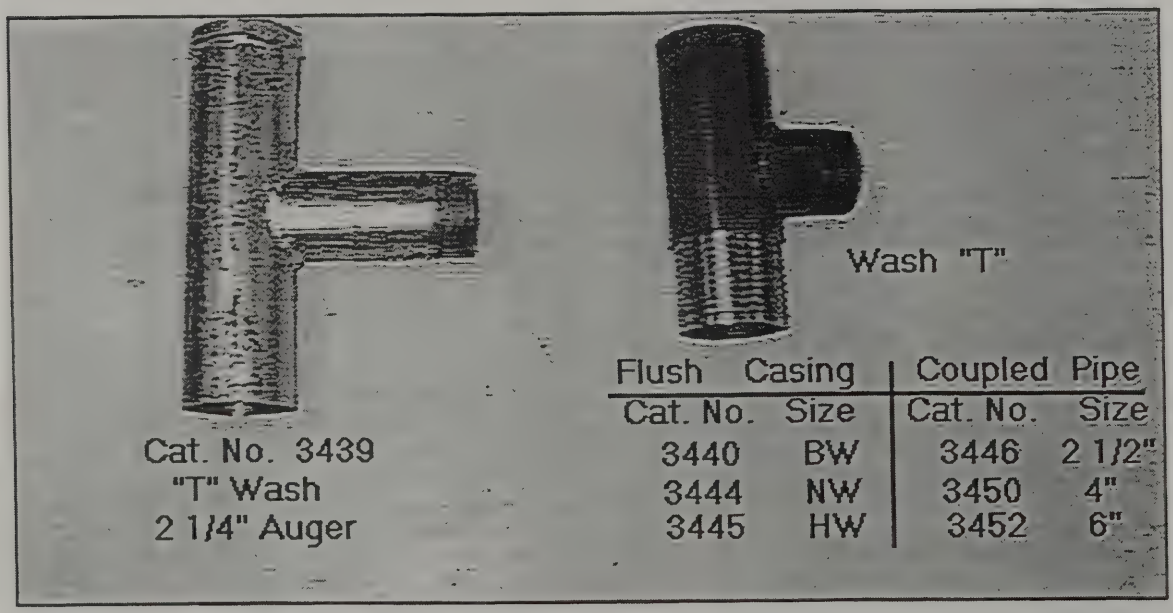
Rod to Cap AW Conn

Cat. No.	Size
2565	2.25"
2566	4.25"

Rod Slips (Auger)

Cat. No.	Size
3071	2 1/4" AW Rod
3074	4 1/4" AW Rod

Photo #10



Cat. No. 3439
"T" Wash
2 1/4" Auger

Wash "T"

Flush Casing		Coupled Pipe	
Cat. No.	Size	Cat. No.	Size
3440	BW	3446	2 1/2"
3444	NW	3450	4"
3445	HW	3452	6"

Photo #11

BITS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
BT	380	$80.00	BIT, CHOPPING ("AW" CONN.-54 MM WIDTH)	{2⅛"}
BT	384	$90.00	BIT, CROSS CHOPPING ("AW"CONN.-44.5 MM WIDTH)	{1¾"}
BT	390	$185.00	BIT, CHOPPING ("NW" CONN.-82.6 MM WIDTH)	{3¼"}
BT	400	$85.00	BIT, DRAG 57 MM (QUARRY BIT) ***See Photo on Pag 36.***	{2¼"}
BT	410	$97.00	BIT, DRAG 88.9 MM (QUARRY BIT) ***See Photo on Page 36.***	{3½"}
BT	505	$135.00	BIT, ROLLER 75 MM ***See Photo on Page 36.***	{2-15/16"}
BT	510	$190.00	BIT, ROLLER 83 MM ("NW" CONN.)	{3¼"}
BT	520	$170.00	BIT, ROLLER 90 MM (60.3 MM API CONN.)	{3½", 2⅜"}
BT	530	$162.40	BIT, ROLLER 95 MM (60.3 MM API CONN.) ***See Photo on Page 36.***	{3¾", 2⅜"}
BT	540	$205.00	**BIT, ROLLER 114 MM (60.3 MM API CONN.)	{4½", 2⅜"}
BT	550	$231.00	**BIT, ROLLER 143 MM (88.9 MM API CONN.)	{5⅝", 3½"}

Roller Bits

NW Connection

Size	Cat. No.
2 15/16"	505
3 1/4"	510

API Connection

Size	Cat. No.
3 1/2" - 2 3/8"	520
3 3/4" - 2 3/8"	530
4 1/2" - 2 3/8"	540
5 5/8" - 3 1/2"	550

Photo #12

Drag Bit
Size - 3 1/2"
Cat. No. - 410

Drag Bit
Size - 2 1/8"
Cat. No. - 400

Photo # 13

CORE BARRELS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CB	150	$154.00	BARREL, CORE ("AWX" S.T. 1.5 M/AW ROD CONN)	{5'}
CB	155	$595.00	BARREL, CORE (AW 34 D.T. 1.5 M/AW ROD CONN) ***See Photo on Page 42.***	{5'}
CB	170	$280.00	BARREL, CORE ("AWM" D.T. 1.5 M/AW ROD CONN)	{5'}
CB	190	$179.00	BARREL, CORE ("BWX" S.T. 1.5 M/BW ROD CONN) ***See Photo on Page 42.***	{5'}
CB	200	$331.50	BARREL, CORE ("BWX" D.T. 1.5 M/BW ROD CONN)	{5'}
CB	210	$344.50	BARREL, CORE ("BWM" D.T. 1.5 M/BW ROD CONN)	{5'}
CB	230	$216.00	BARREL, CORE ("NWX" S.T. 1.5 M/NW ROD CONN)	{5'}
CB	240	$350.00	BARREL, CORE ("NWX" D.T. 1.5 M/"NW" ROD CONN)	{5'}
CB	241	$550.00	BARREL, CORE ("NWX" D.T. 3 M/"NW" ROD CONN)	{10'}
CB	247	$250.00	BARREL, CORE ("NWM" D.T. .6 M/"NW" ROD CONN)	{2'}
CB	250	$475.00	BARREL, CORE ("NWM" D.T. 1.5 M/"NW" ROD CONN)	{5'}
CB	255	$865.00	BARREL, CORE (NXD4 1.5 M CHRISTENSEN/"NW" ROD CONN)	{5'}
CB	257	$928.55	** BARREL, CORE ("NQ" 50 MM WIRELINE LONGYEAR D.T. 5)	{2",5'}
CB	258	$1000.80	** BARREL, CORE ("NQ" 50 MM WIRELINE 3 M)	{2",10'}
CB	260	$350.00	BARREL, CORE ("HWX" S.T. 1.5 M/NW ROD CONN)	{5'}
CB	290	$25.00	BEARING, "AWX"/"AWM" CORE BARREL (SET)	
CB	300	$30.00	BEARING, "NWX"/"NWM" CORE BARREL (SET)	
CB	830	$31.00	CASE, LIFTER ("AWM")	
CB	835	$21.00	CASE, LIFTER (AW-34) ***See Photo on Page 41.***	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CB	840	$31.00	CASE, LIFTER ("BWM")	
CB	850	$20.00	CASE, LIFTER ("NWM")	
CB	855	$25.00	CASE, LIFTER (NXD-4) ***See Photo on Page 41.***	
CB	1930	$12.30	LIFTER, CORE ("AX") ***See Photo on Page 41.***	
CB	1931	$15.00	LIFTER, CORE AW34 ***See Photo on Page 41.***	
CB	1940	$16.00	LIFTER, CORE ("BX") ***See Photo on Page 41.***	
CB	1950	$129.00	LIFTER, CORE ("HX") ***See Photo on Page 41.***	
CB	1960	$19.00	LIFTER, CORE ("NX") ***See Photo on Page 41.***	
CB	1985	$23.00	LIFTER, CORE (NWD-4, CHRISTENSEN)	
CB	2000	$72.00	LIFTER, ROD "AW" (CLOSED)	
CB	2840	$32.00	SHELL, REAMING ('AWX' BLANK ST)	
CB	2850	$43.00	SHELL, REAMING ('BWX' BLANK ST)	
CB	2860	$43.50	SHELL, REAMING ('NWX' BLANK ST)	
CB	2870	$63.00	SHELL, REAMING ('HX' BLANK ST)	
CB	2875	$124.00	SHELL, REAMING AW34 ***See Photo on Page 41.***	
CB	2880	$40.50	SHELL, REAMING ('AWX' BLANK DT)	
CB	2890	$49.00	SHELL, REAMING ('BWX' BLANK DT)	
CB	2895	$43.50	SHELL, REAMING (NWD-4,76.2 MM)	{3"}
CB	2900	$40.00	SHELL, REAMING ('NWX' BLANK DT)	
CB	2910	$43.00	SHELL, REAMING ('AWM' BLANK)	
CB	2920	$35.50	SHELL, REAMING ('BWM' BLANK)	
CB	2930	$29.00	SHELL, REAMING ('NWM' BLANK)	
CB	2932	$129.00	SHELL, REAMING (NWD-4) ***See Photo on Page 41.***	
CB	3587	$185.00	** TUBE, INNER (CHRISTENSEN) NWD-4	
CB	3590	$86.00	TUBE, INNER ("AWX" 1.5 M)	{5'}
CB	3600	$95.00	TUBE, INNER ("BWX" 1.5 M)	{5'}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CB	3605	$279.75	** TUBE, INNER (CHRISTENSEN SPLIT)	
CB	3610	$115.00	TUBE, INNER ("NWX" 1.5 M)	{5'}
CB	3615	$150.00	TUBE, INNER (AW-34) ***See Photo on Page 42.***	
CB	3620	$84.00	TUBE, INNER ("AWM" 1.5 M)	{5'}
CB	3630	$101.00	TUBE, INNER ("BWM" 1.5 M)	{5'}
CB	3640	$90.00	TUBE, INNER ("NWM" 1.5 M)	{5'}
CB	3650	$80.00	TUBE, OUTER ("AWX" 1.5 M)	{5'}
CB	3655	$100.00	TUBE, OUTER (AW-34 1.52 M) ***See Photo on Page 42.***	{5'}
CB	3660	$99.00	TUBE, OUTER ("BWX" 1.5 M)	{5'}
CB	3670	$88.00	TUBE, OUTER ("NWX" 1.5 M)	{5'}
CB	3680	$83.00	TUBE, OUTER ("AWM" 1.5 M)	{5'}
CB	3690	$104.00	TUBE, OUTER ("BWM" 1.5 M)	{5'}
CB	3700	$108.50	TUBE, OUTER ("NWM" 1.5 M)	{5'}
CB	3705	$260.00	TUBE, OUTER "NW" (D-4 CHRISTENSEN)	

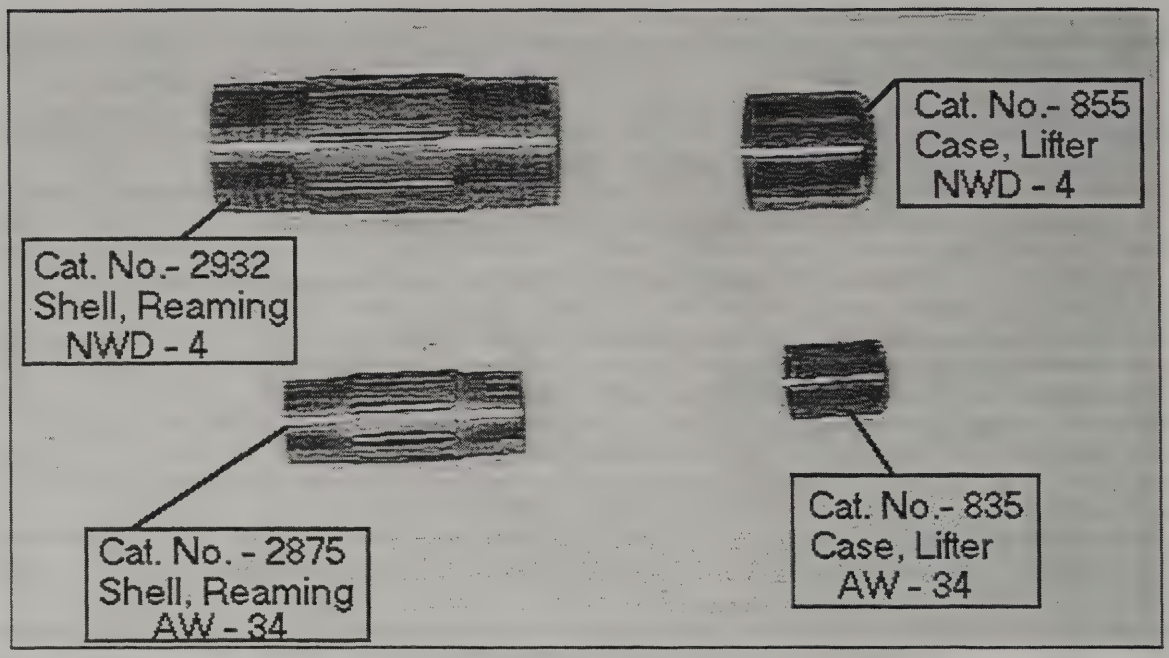
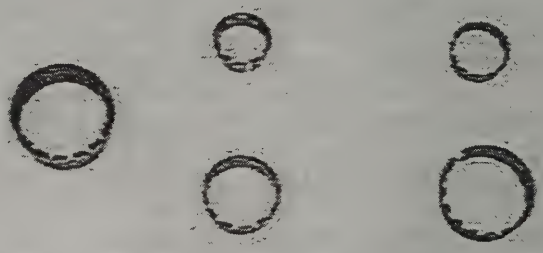


Photo #14

Core Lifters

Size	Cat. No.
AW	1930
AW-34	1931
BW	1940

Size	Cat. No.
NW	1960
NWD-4	1985
HW	1950



Phot #15

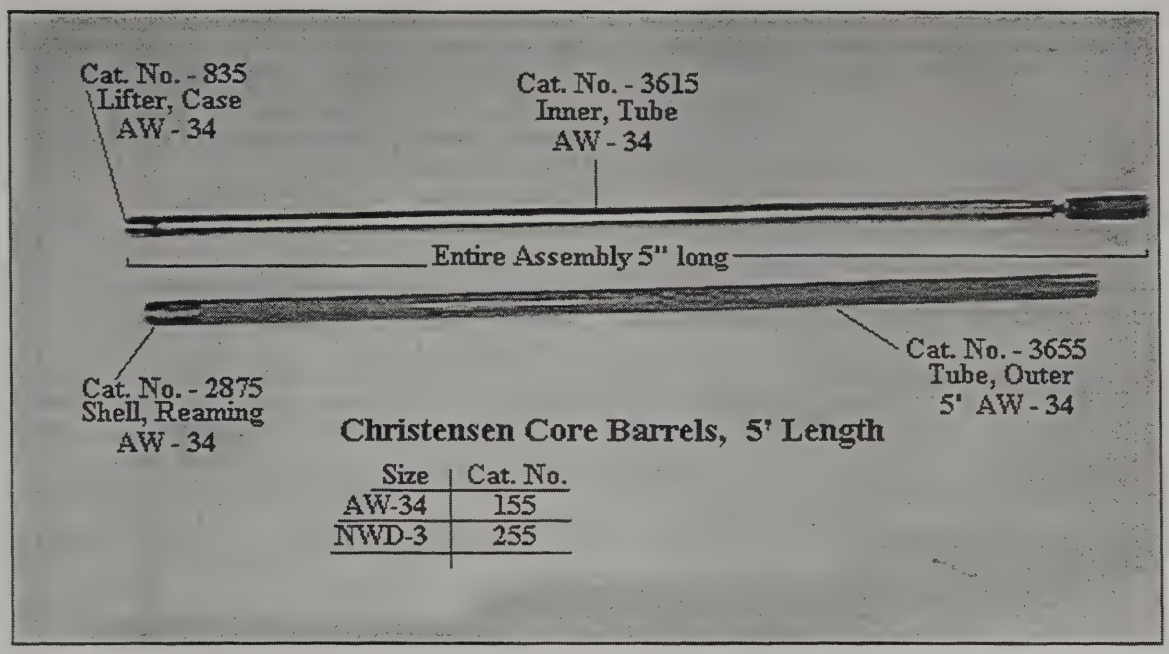


Photo #16

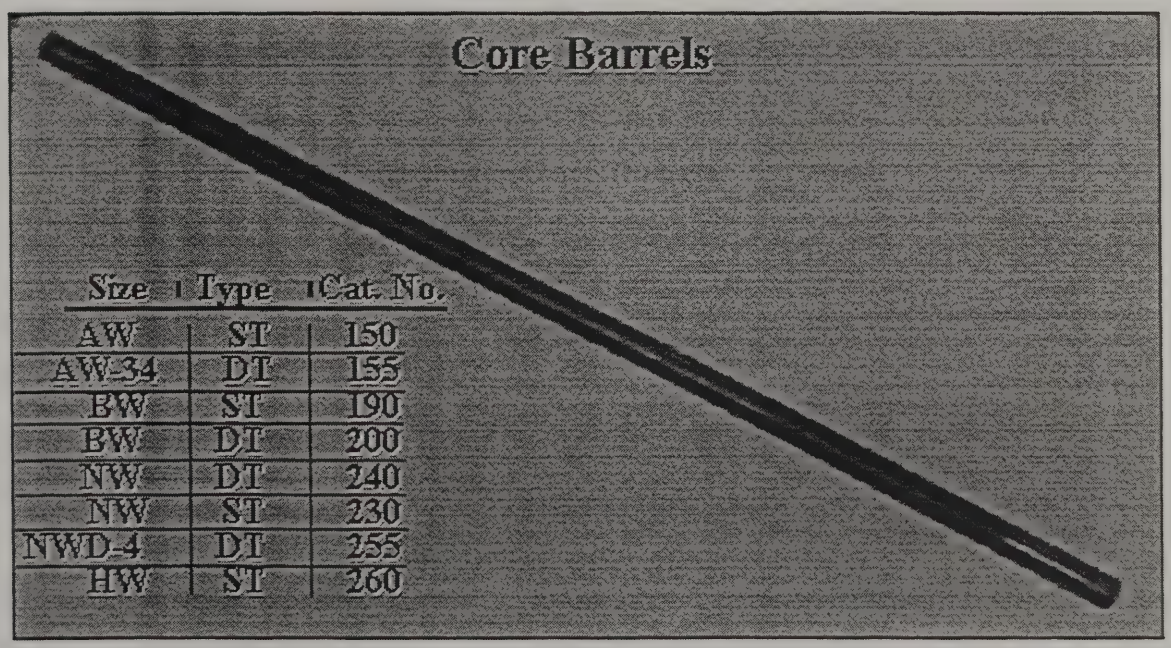


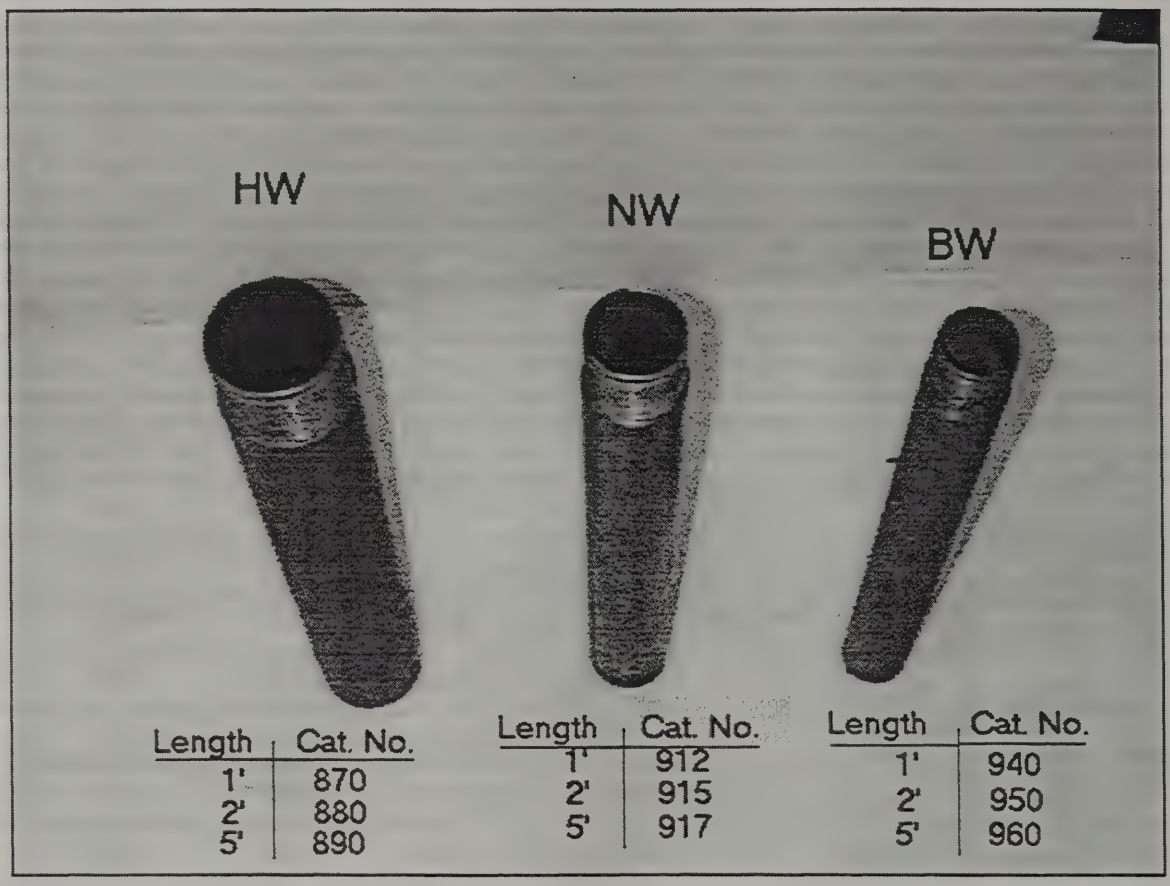
Photo #17

CASING & PIPE

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	30	$.75	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM PIPE FEMALE)	{1"}
CP	33	$9.68	6" PVCPRS MALE ADPT. SLIP TO MALE	
CP	35	$.76	ADAPTORS (25.4 MM PVC STAB TO 25.4 MM MALE PIPE)	{1"}
CP	36	$14.30	6" PVC ADAPT SLIP TO FEMALE	
CP	795	$3.00	CAPS (SI 84.4 MM)	{3.34"}
CP	801	$1.00	CAP, PVC (25.4 MM PIPE THREAD)	{1"}
CP	809	$10.78	6" PVC PRES CAP SCH 40	
CP	865	$42.30	CASING, "AW" (1.5 M LENGTH)	{5'}
CP	870	$31.00	CASING, "BW" (0.3 M LENGTH)	{1'}
CP	880	$42.00	CASING, "BW" (0.6 M LENGTH) ***See Photo on Page 47.***	{2'}
CP	890	$60.00	CASING, "BW" (1.5 M LENGTH)	{5'}
CP	912	$40.00	CASING, "NW" (0.3 M LENGTH)	{1'}
CP	915	$48.00	CASING, "NW" (0.6 M LENGTH)	{2'}
CP	917	$70.00	CASING, "NW" (1.5 M LENGTH) ***See Photo on Page 47.***	{5'}
CP	940	$39.00	CASING, "HW" (0.3 M LENGTH)	{1'}
CP	950	$68.00	CASING, "HW" (0.6 M LENGTH) ***See Photo on Page 47.***	{2'}
CP	960	$90.00	CASING, "HW" (1.5 M LENGTH-EA.)	{5'}
CP	962	$75.00	** CASING, "PW" (0.6 M LENGTH)	{2'}
CP	963	$123.50	** CASING, "PW" (1.5 M LENGTH)	{5'}
CP	1180	$1.00	* COUPLINGS (25.4 MM PVC)	{1"}
CP	1190	$2.50	* COUPLINGS (76.2 PVC)	{3"}
CP	1195	$5.00	COUPLINGS (SI 84.8 MM)	{3.34"}
CP	1200	$.55	COUPLINGS (12.7 MM PIPE)	{½"}
CP	1201	$5.48	COUPLING, REDUCER (2"X1½")	
CP	1202	$3.11	COUPLING, REDUCER (1¼X1")	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	1210	$.99	COUPLING (19.1 MM PIPE)	{¾"}
CP	1211	$4.00	COUPLING, REDUCER (1½X1¼)	
CP	1220	$.79	COUPLING (25.4 MM PIPE)	{1"}
CP	1230	$21.00	COUPLING (63.5 MM PIPE)	{2½"}
CP	1240	$36.00	COUPLINGS (101.6 MM PIPE)	{4"}
CP	1250	$15.00	COUPLINGS (152 MM PIPE)	{6"}
CP	1460	$1.99	* GLUE (PVC-.5 L OR .25 L)	{PT OR ½ PT}
CP	1650	$210.00	HEAD, DRIVE (100 MM PIPE)	{4"}
CP	1655	$105.00	HEAD, DRIVE (100 MM PIPE W/NW ROD BOX)	{4"}
CP	1660	$110.00	HEAD, DRIVE ("BW")	
CP	1670	$120.00	HEAD, DRIVE ("HW")	
CP	1675	$115.00	HEAD, DRIVE ("NW")	
CP	1677	$210.00	** HEAD, DRIVE (PW CASING)	
CP	1883	$63.00	JAWS, 76 MM (PIPE RETRIEVER)	{3"}
CP	1884	$25.00	JAWS, 63.5 MM (PIPE RETRIEVER)	{2½"}
CP	1885	$25.00	JAWS, 100 MM (PIPE RETRIEVER)	{4"}
CP	2071	$2.57	NIPPLES, 4" LENGTH (2")	
CP	2072	$1.93	NIPPLES, 4" LENGTH (1½")	
CP	2073	$1.93	NIPPLES, 4" LENGTH (1¼")	
CP	2074	$.75	NIPPLES, 4" LENGTH (½")	
CP	2076	$1.75	NIPPLES, CLOSE (2")	
CP	2077	$1.21	NIPPLES, CLOSE (1½")	
CP	2080	$1.00	NIPPLES, CLOSE (31.8 MM)	{1¼"}
CP	2081	$.46	NIPPLES, CLOSE (½")	
CP	2082	$16.50	NOSE, PIPE RETRIEVER	
CP	2120	$3.53	PIPE (13 MM, 1 M LONG)	{½", 3'}
CP	2130	$4.28	PIPE (19 MM AUGER-L.M.)	{¾"}
CP	2140	$2.10	PIPE (25.4 MM PVC 3 M LENGTHS-L.M.)	{1", 10'}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
CP	2150	$.78	PIPE (PVC 76.2 M L.M.)	{3"}
CP	2155	$50.00	PIPE, SLOPE INDICATOR 76.2 MM- 3 M LONG	{3", 10'}
CP	2156	$15.00	PIPE, SLOPE INDICATOR 76.2 MM- 1.5 M LONG	{3", 5'}
CP	2160	$64.25	PIPE, 63.5 MM (1.5 M LENGTHS)	{2½", 5'}
CP	2170	$111.00	PIPE, 100 MM (1.5 M LENGTHS)	{4", 5'}
CP	2180	$88.00	** PIPE, 150 MM (0.6 M LENGTHS)	{6", 2'}
CP	2190	$129.00	** PIPE, 150 MM (1.5 M LENGTHS)	{6",5'}
CP	2260	$1.00	* PLUGS (25.4 MM PVC THREADED)	{1"}
CP	2265	$2.50	PLUGS 100 MM BRASS PIPE	{4"}
CP	2390	$150.00	RETREAVER, PIPE ("AW" CONN.)	
CP	2935	$45.55	** SHOE, DRIVE ("AW"CASING)	
CP	2940	$46.00	SHOE, DRIVE ("BW"CASING) ***See Photo on Page 48.***	
CP	2955	$58.00	SHOE, DRIVE ("NW"CASING)	
CP	2960	$79.00	SHOE, DRIVE ("HW"CASING)	
CP	2963	$115.00	** SHOE, DRIVE ("PW"CASING)	
CP	3000	$49.00	SHOE, PIPE (63.5 MM) ***See Photo on Page 48.***	{2½"}
CP	3010	$64.00	SHOE, PIPE (101.6 MM)	{4"}
CP	3440	$85.00	"T", "BW" CASING	
CP	3444	$82.00	"T", "NW" CASING ***See Photo on Page 48.***	
CP	3445	$105.00	"T", "HW" CASING ***See Photo on Page 48.***	
CP	3446	$6.50	"T", 63.5 MM PIPE	{2½"}
CP	3450	$9.65	"T", 101.6 MM PIPE	{4"}
CP	3452	$11.75	"T", 152.4 MM PIPE	{6"}

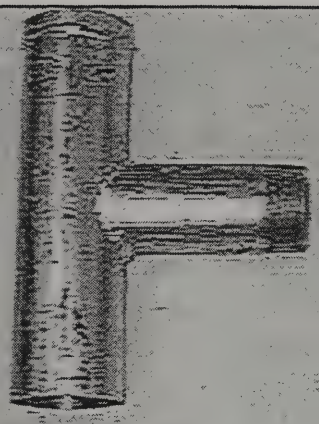


Length	Cat. No.
1'	870
2'	880
5'	890

Length	Cat. No.
1'	912
2'	915
5'	917

Length	Cat. No.
1'	940
2'	950
5'	960

Photo #18

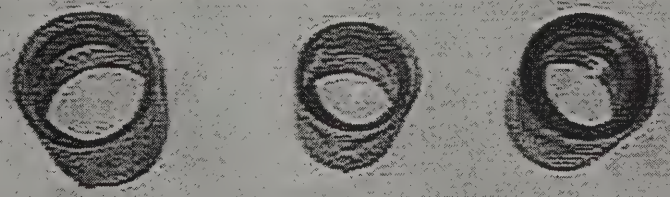


Cat. No. 3439
"T" Wash
2 1/4" Auger

Wash "T"

Flush Casing		Coupled Pipe	
Cat. No.	Size	Cat. No.	Size
3440	BW	3446	2 1/2"
3444	NW	3450	4"
3445	HW	3452	6"

Photo #19



Drive Shoes

Flush Joint		Coupled	
Size	Cat. No.	Size	Cat. No.
BW	2940	2 1/2"	3000
NW	2955	4"	3010
HW	2960		

Photo #20

DIAMOND BITS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DB	10	$75.00	ADAPTOR, HEAD (108 MM EXP. FOR THIN WALL BIT)	{4¼"}
DB	20	$85.00	ADAPTOR, HEAD (158.8 MM EXP. FOR THIN WALL BIT)	{6¼"}
DB	2435	$9.00	RING EXPANDING FOR THIN WALL ADAPTOR	{4¼"}
DB	2437	$12.00	RING EXPANDING THIN WALL ADAPTOR	{6¼"}
DB	4000	$121.00	"AW" CORING SURFACE SET (FINE)	
DB	4005	$127.50	"AW" CORING SURFACE SET (COARSE)	
DB	4010	$150.00	"AW" CORING (IMPREGNATED)	
DB	4015	$135.50	"AXM" CORING SURFACE SET (COARSE)	
DB	4020	$235.00	"AW-34" CORING SURFACE SET (COARSE)	
DB	4025	$190.00	"AW-34" CORING (IMPREGNATED)	
DB	4026	$200.00	"AW-34" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
DB	4028	$200.00	"AW-34" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
DB	4030	$160.00	"BW" CORING SURFACE SET (FINE)	
DB	4035	$165.00	"BW" CORING SURFACE SET (COARSE)	
DB	4038	$250.00	"BW" CORING (IMP.) COPPER HOFFMAN (VERY HARD FORMATIONS)	
DB	4039	$250.00	"BW" CORING (IMP.) HOFFMAN (TAN) VERY HARD FORMATIONS	
DB	4040	$193.00	"BW" CORING (IMPREGNATED)	
DB	4045	$200.00	"BXM" CORING SURFACE SET (COARSE)	
DB	4050	$200.00	"BX" CASING SHOE SURFACE SET (COARSE)	
DB	4055	$200.00	"BX" CASING SHOE (IMPREGNATED)	
DB	4060	$175.00	"BW" CASING SHOE SURFACE SET (COARSE)	
DB	4065	$193.00	"BW" CASING SHOE (IMPREGNATED)	
DB	4070	$215.00	"NW" CORING SURFACE SET (FINE)	
DB	4075	$215.00	"NW" CORING SURFACE SET (COARSE)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DB	4077	$250.00	"NW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	
DB	4078	$250.00	"NW" CORING (IMP.) HOFFMAN (COPPER) VERY HARD FORMATIONS	
DB	4079	$400.00	"NW" CORING (IMP.) CHRISTENSEN (BLACK) EXTREMELY HARD ROCK	
DB	4080	$244.00	"NW" CORING (IMPREGNATED)	
DB	4081	$278.00	NWD-4 DIAMOND BIT (COPPER)	
DB	4085	$215.00	"NXM" CORING SURFACE SET (COARSE)	
DB	4090	$200.00	"NX" CASING SHOE SURFACE SET (COARSE)	
DB	4095	$200.00	"NX" CASING SHOE (IMPREGNATED)	
DB	4100	$245.00	"NW" CASING SHOE SURFACE SET (COARSE)	
DB	4105	$250.00	"NW" CASING SHOE (IMPREGNATED)	
DB	4110	$290.00	"NWD-3" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
DB	4115	$250.00	"NWD-4" CORING SURFACE SET (COARSE) (CHRISTENSEN)	
DB	4116	$198.00	"NWD-4" CORING SURFACE SET (FINE) (CHRISTENSEN)	
DB	4119	$220.00	"NWD-4" CORING (IMP.) CHRISTENSEN (TAN) HARD ROCK	
DB	4120	$350.00	"NWD-4" CORING (IMPREGNATED) (CHRISTENSEN)	
DB	4125	$456.00	"NQ-2" CORING (IMPREGNATED) (WIRELINE)	
DB	4130	$285.00	"HW" CORING SURFACE SET (FINE)	
DB	4135	$300.00	"HW" CORING SURFACE SET (COARSE)	
DB	4139	$300.00	"HW" CORING (IMP.) HOFFMAN VERY HARD FORMATIONS	
DB	4140	$295.00	"HW" CORING (IMPREGNATED)	
DB	4141	$300.00	"HW" CORING (IMP.) HOFFMAN (TAN) HARD ROCK	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
B	4145	$275.00	"HW" CASING SHOE SURFACE SET (COARSE)	
DB	4150	$290.00	"HW" CASING SHOE (IMPREGNATED)	
DB	4151	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (COPPER HARD ROCK)	
DB	4152	$300.00	"HWCS" CASING SHOE (IMP.) HOFFMAN (TAN) HARD ROCK	

DRILLING TOOLS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DT	70	$490.00	AUGER, JET 92 MM	{3⅝"}
DT	80	$480.00	AUGER, JET (92 MM WITH CALYX)	{3⅝"}
DT	90	$95.00	AUGER, JET (79 MM)	{3⅛"}
DT	110	$84.00	BAR, JAR (63.5 MM DOUBLE EXTRA HEAVY)	{2½"}
DT	320	$9.00	BENTONITE (QUICK-GEL-VOLCLAY-PWD/ GRAN) 23 KG. BAG	{50 LB}
DT	321	$12.00	BENTONITE-BENSEAL (50# BAG)	{50 LB}
DT	640	$15.00	BOLTS, EYE (ACKER HAMMER 136.2 KG)	{300 LB}
DT	650	$15.00	BOLTS, EYE (S&H HAMMER 136.2 KG)	{300 LB}
DT	680	$130.00	BOULDER BUSTER (57 MM)	{2¼"}
DT	690	$156.25	BOULDER BUSTER (88.9 MM)	{3½"}
DT	1370	$1.41	FLAGGING (RED ROLLS)	
DT	1380	$1.41	* FLAGGING (YELLOW ROLLS)	
DT	1430	$38.50	GAUGE (MINERAL FILLED)	
DT	1575	$275.00	HAMMER (64 KG)	{140 LB}
DT	1580	$450.00	HAMMER (136.2 KG)	{300 LB}
DT	1734	$5.67	HOLDER, CRAYON	
DT	1740	$65.00	HOOK, ROD ("AW") ***See Photo on Page 57.***	
DT	1750	$75.00	HOOK, ROD ("NW")	
DT	1755	$22.00	HOOK, SAFETY	
DT	1890	$22.80	JUGS, WATER (7.6 L)	{2 GAL}
DT	1900	$8.40	KEIL (BOX)	
DT	1910	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, LARGE HOOK	
DT	1912	$3.19	LATCH KIT (SAFETY HOOK) 3 TON, SMALL HOOK	
DT	1920	$3.20	LEVEL (CARPENTER'S 600 MM)	{24"}
DT	2000	$70.00	LIFTER, ROD AW (CLOSED) ***See Photo on Page 57.***	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DT	2010	$56.00	LIFTER, ROD "AW" (OPEN) ***See Photo on Page 57.***	
DT	2020	$113.00	LIFTER, ROD "NW" (CLOSED) ***See Photo on Page 57.***	
DT	2030	$110.00	LIFTER, ROD "NW" (OPEN)	
DT	2070	$45.00	LUBRICANT (6.8 KG PAIL)	{15 LB}
DT	2095	$10.00	PACKING-SIDEFEED SWIVEL LIGHT DUTY	
DT	2270	$115.00	PLUG HOIST ("AW" CONN.)	
DT	2280	$20.00	* POINTS (POIN JAR 25.4 MM DIA. X 1 M LONG)	{1",3'}
DT	2400	$1.00	RING, "O" (N&N SWIVEL)	
DT	2410	$38.00	RING, DRIVE (63.5 MM JAR BAR)	{2½"}
DT	2415	$25.00	RING, DRIVE 63.5 MM MODIFIED JAR BAR	{2½"}
DT	2420	$48.00	RING, ROD ("AW")	
DT	2430	$69.00	RING, ROD ("NW") ***See Photo on Page 57.***	
DT	2630	$3.06	RULERS (2 M WOOD)	{6'}
DT	2631	$8.55	RULERS, METRIC (2 M)	
DT	2820	$20.00	* SHANK (PION JAR IMPACT)	
DT	3420	$450.00	SWIVEL, WATER (KING TYPE)	
DT	3430	$175.00	SWIVEL, WATER (PLAIN TYPE)	
DT	3435	$309.50	SWIVEL, WATER-SIDE FEED ***See Photo on Page 58.***	
DT	3470	$133.70	TAP (FISHING "AW" COUP. I.D.)	
DT	3480	$132.95	TAP (FISHING "AW" COUP. O.D.)	
DT	3490	$133.70	TAP (FISHING "AW" ROD I.D.)	
DT	3500	$138.40	TAP (FISHING "AW" ROD O.D.)	
DT	3510	$78.00	TAP (FISHING "NW" COUP. I.D.)	
DT	3520	$90.00	TAP (FISHING "NW" COUP. O.D.)	
DT	3530	$169.55	TAP (FISHING "NW" DRILL ROD I.D.)	
DT	3540	$242.70	TAP (FISHING "NW" DRILL ROD O.D.)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
DT	3560	$.79	TAPE (PLASTIC)	
DT	3710	$1.52	TUBE, LEXAN (FOR "Z" GAUGE L.M.)	
DT	3718	$205.00	UNIVERSAL (40 MM HEX SOCKET TO 40 MM HEX SOCKET) 20 MG	{1⅝" TO 1⅝"}
DT	3721	$15.00	VALVE, CHECK (BRASS 25.4 MM)	{1"}
DT	3730	$13.00	VALVE (BALL COCK 25.4 MM)	{1"}
DT	3735	$18.00	VALVE (BALL COCK 38.1 MM)	{1½"}
DT	3770	$100.00	VISE (PIPE 100 MM CAPACITY)	{4"}
DT	3880	$14.73	WRENCH, CHUCK (S&H 19.1 MM)	{¾"}

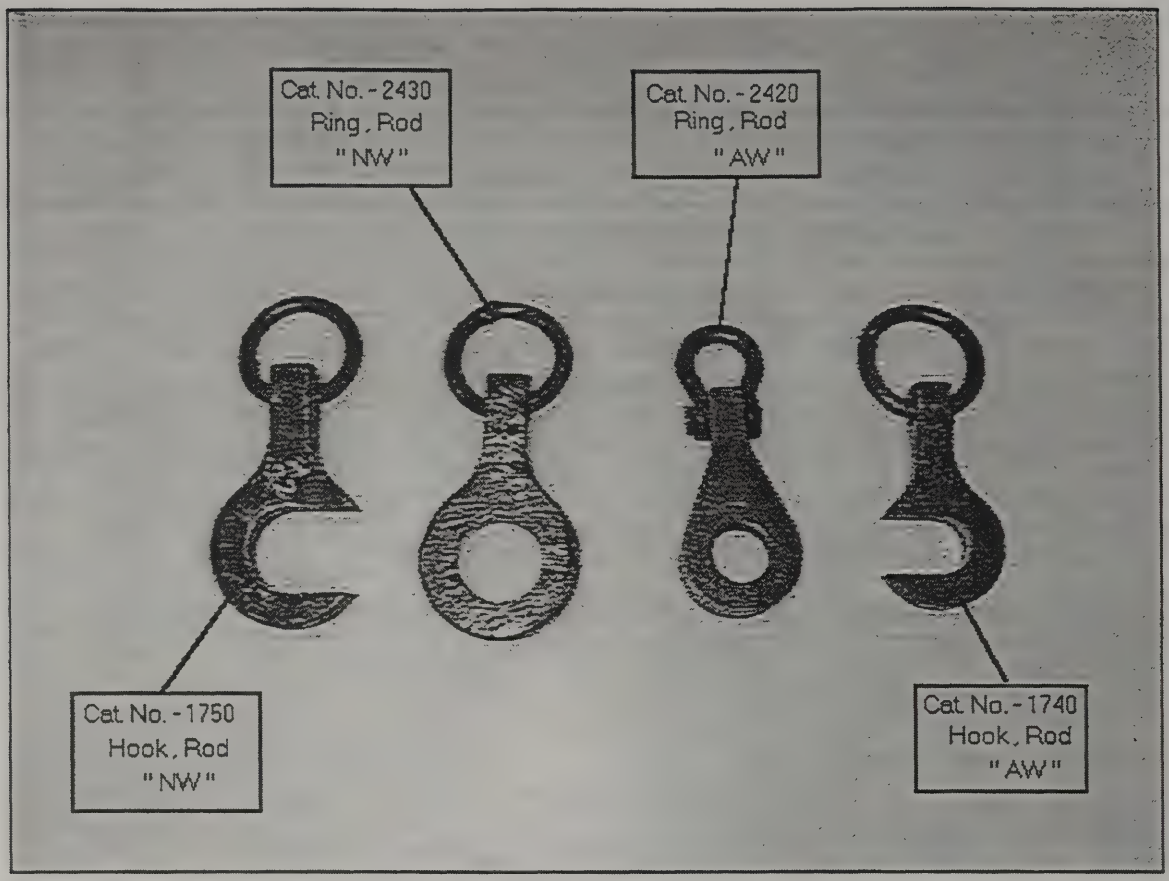


Photo #21

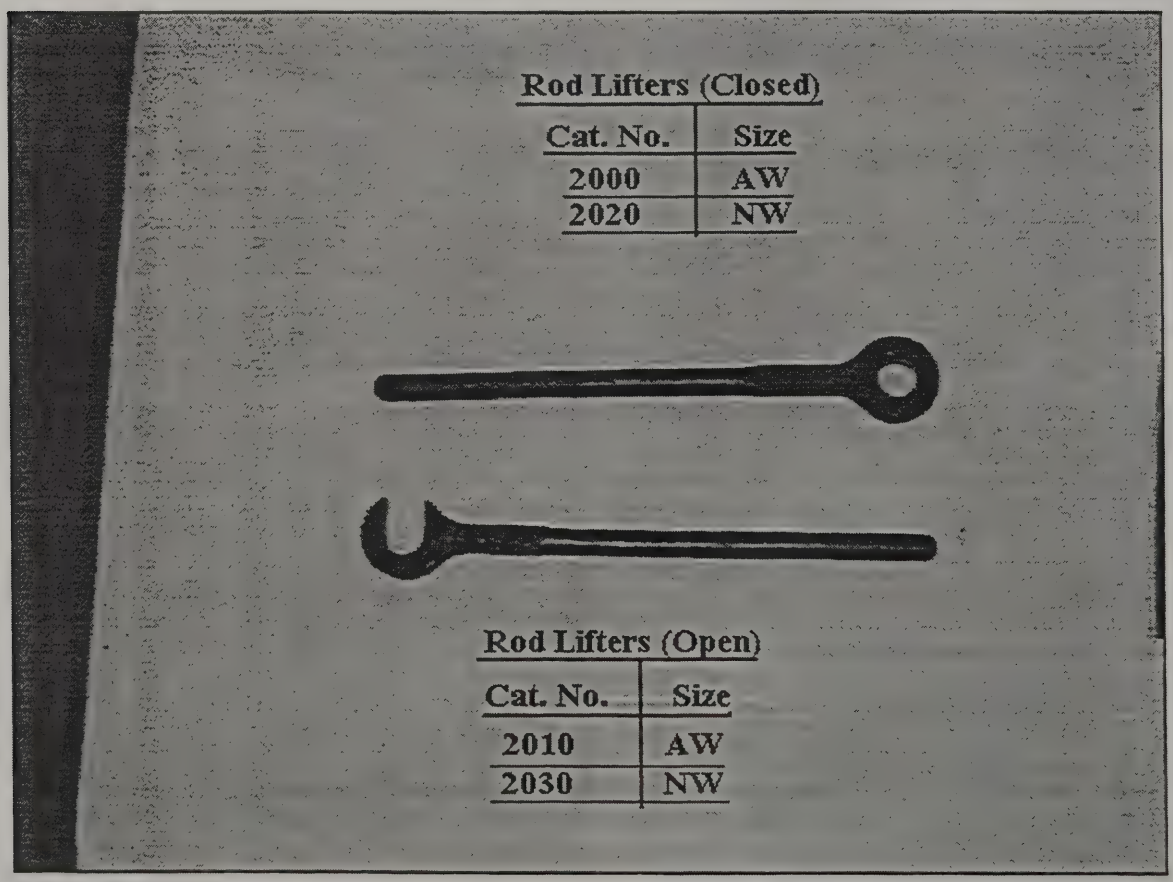


Photo #22

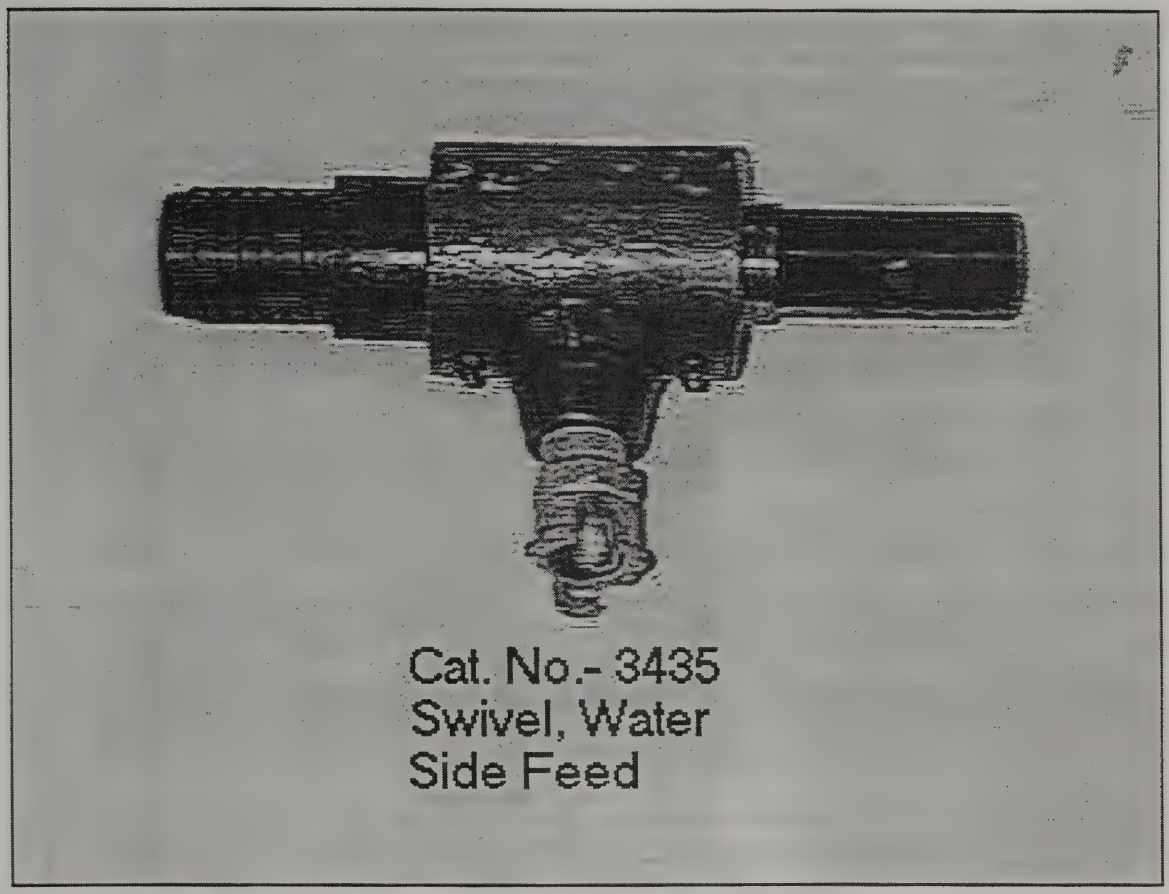


Photo #23

HOSES

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HO	1010	$3.00	CLAMPS (25.4 MM DISCHARGE HOSE BOLTED) ***See Photo on Page 62.***	{1"}
HO	1020	$.49	CLAMPS (25.4 MM PLASTIC HOSE)	{1"}
HO	1060	$3.00	CONNECTION (19 MM THREADED MALE SNAP ON)	{¾"}
HO	1080	$3.00	CONNECTION (25.4 MM THREADED MALE SNAP ON) ***See Photo on Page 62.***	{1"}
HO	1090	$3.00	CONNECTION (25.4 MM THREADED FEMALE SNAP ON) ***See Photo on Page 62.***	{1"}
HO	1120	$2.65	CONNECTION (SNAP ON 25.4 MM HOSE) ***See Photo on Page 62.***	{1"}
HO	1123	$3.82	CONNECTION, QUICK (32 MM FEMALE THREAD) "ADAPTOR A"	{1¼"}
HO	1124	$8.36	CONNECTION, QUICK (32 MM FEMALE THREAD) "COUPLER D"	{1¼"}
HO	1127	$8.38	CONNECTION, QUICK (38.1 MM STAB) "COUPLER C"	{1½"}
HO	1128	$8.38	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "COUPLER D" ***See Photo on Page 63.***	{1½"}
HO	1129	$4.88	CONNECTION, QUICK (38.1 MM MALE THREAD) "ADAPTER F"	{1½"}
HO	1131	$3.60	CONNECTION, QUICK (38.1 MM FEMALE THREAD) "ADAPTER A"	{1½"}
HO	1133	$5.72	CONNECTION, QUICK (50.8 MM MALE THREAD) "ADAPTER F"	{ 2" }
HO	1134	$4.38	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "ADAPTER A" ***See Photo on Page 63.***	{2"}
HO	1135	$9.04	CONNECTION, QUICK (50.8 MM FEMALE THREAD) "COUPLER D"	{2"}
HO	1300	$15.00	DISCONNECT (QUICK HYD. PARKER-HANNIFIN)	
HO	1450	$1.00	GASKETS (SUCTION HOSE 38 MM NEOPRENE)	{1½"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HO	1451	$1.00	GASKETS (QUICK CONNECT 38.1 MM NEOPRENE)	{1½"}
HO	1452	$1.00	GASKETS (QUICK CONNECT 50.8 MM NEOPRENE)	{2"}
HO	1453	$1.00	GASKETS (SUCTION 50 MM NEOPRENE)	{2"}
HO	1480	$1.00	GROMMETS (25 MM AIR HOSE FITTINGS) ***See Photo on Page 62.***	{1"}
HO	1760	$.58	HOSE (25.4 MM BRAIDED AIR-L.M.)	{1"}
HO	1765	$75.50	HOSE (32 MM AIR C.M.E.) 3 M LENGTH	{1¼", 10'}
HO	1770	$65.00	HOSE (38 MM SUCTION 6 M LENGTHS) PLASTIC	{1½", 20'}
HO	1772	$59.00	HOSE (38 MM SUCTION 6 M LENGTHS)-RUBBER	{1½", 20'}
HO	1775	$45.00	HOSE, 50 MM SUCTION (MOYNO PUMP)	{2"}
HO	3755	$17.79	VALVE, FOOT (38.1 MM-BRASS)	{1½"}
HO	3763	$37.99	VALVE, FOOT (50.8 MM BRASS)	{2"}

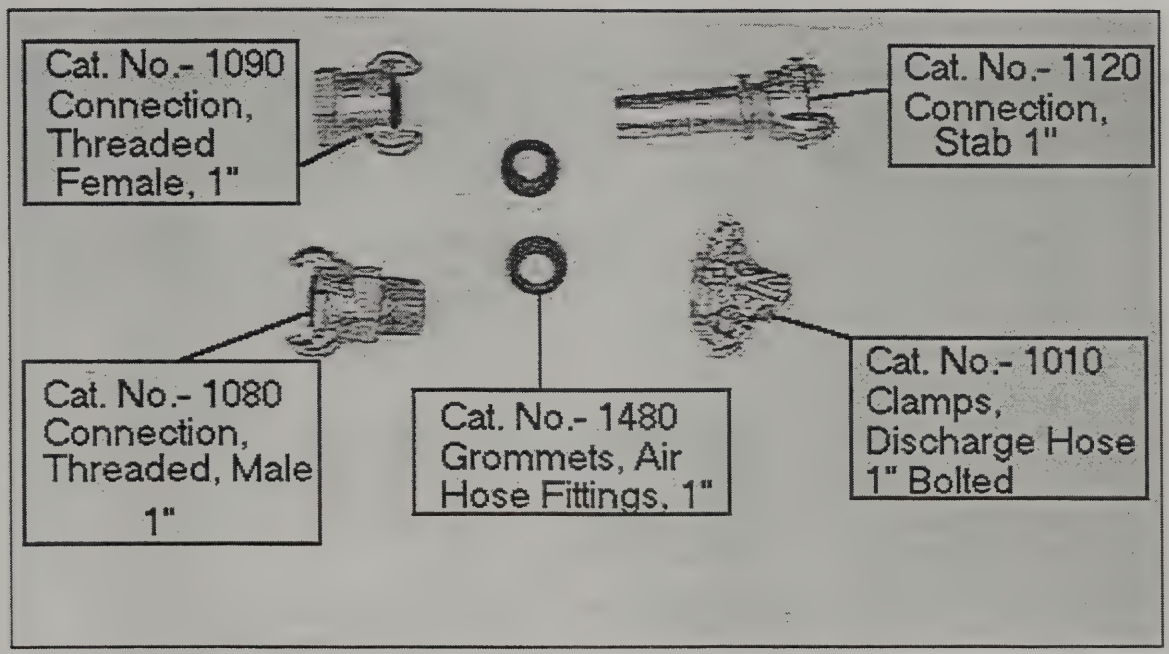

Cat. No.- 1090
Connection,
Threaded
Female, 1"
Cat. No.- 1120
Connection,
Stab 1"
Cat. No.- 1080
Connection,
Threaded, Male
1"
Cat. No.- 1480
Grommets, Air
Hose Fittings, 1"
Cat. No.- 1010
Clamps,
Discharge Hose
1" Bolted

Photo #24

Quick Connections

Couplers "D"

Cat. No.	Size
1124	1 1/4"
1128	1 1/2"
1135	2"

Adapters "A"

Cat. No.	Size
1123	1 1/4"
1131	1 1/2"
1134	2"

Photo #25

HAND TOOLS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	40	$39.00	AUGER, IWAN 150 MM	{6"}
HT	50	$35.00	AUGER, IWAN 100 MM	{4"}
HT	55	$40.00	AUGER, IWAN 75 MM	{3"}
HT	60	$15.00	AUGER, IWAN 50 MM	{2"}
HT	100	$10.05	AXES, SINGLE BIT	
HT	120	$3.22	BAR, PINCH (600 MM)	{24"}
HT	125	$40.00	BAR, POLE (2 M)	{6'}
HT	130	$48.69	BAR, POLE (2.4 M)	{8'}
HT	330	$47.25	BINDER (9.5 MM CHAIN)	{⅜"}
HT	620	$35.00	BLOCK, ROPE (SNATCH 150 MM)	{6"}
HT	622	$136.98	BLOCK, ROPE (SNATCH 200 MM)	{8"}
HT	730	$2.04	BRUSHES (WIRE)	
HT	750	$30.00	CABLES, JUMPER	
HT	760	$15.38	CANS (GAS-20 L JUST RITE SAFETY)	{5 GALLON}
HT	765	$3.19	CANS, OIL (PUSH BOTTOM OILERS 0.5 L)	{1 PT}
HT	970	$10.00	CHAIN (0.6 M CHAIN WRENCH)	{24"}
HT	980	$28.44	CHAIN, LOGGING (9.5 MM- 5 M LONG W/HOOKS)	{⅜", 16'}
HT	990	$100.00	CHAIN, TIE DOWN (DOZER ONLY)	
HT	1030	$2.50	CLEANER (HAND 0.45 KG CANS-CREAM)	{1 LB}
HT	1290	$14.57	* DIGGER (POST HOLE-LONG HANDLES)	
HT	1419	$14.79	FUNNEL (9.5 L CAPACITY)	{10 QT}
HT	1570	$8.04	HAMMER, SLEDGE (3.6 KG)	{8 LB}
HT	1590	$5.00	HANDLE, AXE SINGLE BIT	
HT	1600	$5.00	HANDLE, PICK	
HT	1610	$5.00	HANDLE, SLEDGE HAMMER	
HT	1620	$2.00	HASP (100 MM)	{4"}
HT	1700	$89.90	HEATER (SPACE-SALAMANDER)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	1702	$189.00	HEATER, OIL-FIRED	
HT	1720	$.40	HITCHPIN, HAIRPIN (3 MM X 65 MM)	{⅛" X 2-9/16"}
HT	1730	$.82	HITCHPIN, HAIRPIN (5 MM X 83 MM)	{3/16" X 3¼"}
HT	1780	$20.00	HOSE (2.4 M FOR PROPANE TANKS)	{8'}
HT	1810	$8.25	JAWS (HEEL 350 MM W/PINS)	{14"}
HT	1820	$18.16	JAWS (HOOK 350 MM)	{14"}
HT	1830	$8.25	JAWS (HEEL 450 MM W/PINS)	{18"}
HT	1840	$18.16	JAWS (HOOK 450 MM)	{18"}
HT	1850	$8.25	JAWS (HEEL 600 MM W/PINS)	{24"}
HT	1860	$18.16	JAWS (HOOK 600 MM)	{24"}
HT	1870	$15.00	JAWS (HEEL 915 MM W/PINS)	{36"}
HT	1880	$8.35	JAWS (HOOK 915 MM)	{36"}
HT	1881	$10.00	JAWS, FOR RIGID PIPE VISE (3 MM - 100 MM)	{⅛", 4"}
HT	2060	$3.00	LOCKS (PADLOCK KEYED ALIKE)	
HT	2065	$10.00	LOCKS, OAR (PR)	
HT	2083	$4.50	NUT, 300 MM PIPE WRENCH	{12"}
HT	2084	$3.00	NUT, 450 MM PIPE WRENCH	{18"}
HT	2085	$31.50	NUT, 600 MM PIPE WRENCH	{24"}
HT	2090	$17.84	OARS (2 M PAIR)	{6½'}
HT	2105	$8.89	PICK	
HT	2770	$7.83	SAW (BOW 0.6 M)	{24"}
HT	2780	$15.00	SAW (CARPENTER)	
HT	2830	$25.13	SHEARS (LOPPING)	
HT	3040	$10.00	SHOVEL, LONG HANDLE ROUND POINT	
HT	3050	$10.00	SHOVEL, LONG HANDLE SQUARE POINT	
HT	3060	$10.00	SHOVEL, SHORT HANDLE ROUND POINT	
HT	3070	$10.00	SHOVEL, SHORT HANDLE SQUARE POINT	
HT	3114	$1.80	SPRINGS, 450 MM PIPE WRENCH (SETS)	{18"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
HT	3115	$1.90	SPRINGS, 600 MM PIPE WRENCH (SETS)	{4"}
HT	3160	$.50	* STAKES (25 MM X 25 MM X 1.2 M)	{1" X 1" X 48"}
HT	3190	$.20	STAKES, WIRE (600 M)	{2'}
HT	3205	$5.00	STRAP, SAFETY (GAS CAN)	
HT	3455	$20.00	TANK, PROPANE (9 KG)	{20 LB}
HT	3570	$45.50	TARP (PLASTIC 2.4 M X 3 M)	{8' X 10'}
HT	3575	$105.00	TARP, TRUCK (4.3 M X 4.9 M)	{14' X 16'}
HT	3580	$146.25	TORCH (PROPANE COMPLETE)	
HT	3740	$15.95	VALVE, DEMAND (PROPANE)	
HT	3810	$22.00	WRENCH (CHAIN 300 MM)	{12"}
HT	3820	$42.09	WRENCH (CHAIN 450 MM)	{18"}
HT	3830	$40.00	WRENCH (CHAIN 600 MM)	{24"}
HT	3840	$101.48	WRENCH (CHAIN 1 M)	{36"}
HT	3890	$8.69	WRENCH, 200 MM PIPE	{8"}
HT	3900	$12.80	WRENCH, 350 MM PIPE	{14"}
HT	3910	$19.75	WRENCH, 450 MM PIPE	{18"}
HT	3920	$31.50	WRENCH, 600 MM PIPE	{24"}
HT	3930	$61.75	WRENCH, 1 M PIPE	{36"}

MECHANIC TOOLS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
MT	590	$.65	BLADES, HACKSAW 305 MM (18,24,32 TEETH PER- 25 MM)	{12"}
MT	720	$38.19	BOX (TOOL 0.6 M)	{24"}
MT	1001	$1.63	CHISEL (6 MM)	{¼"}
MT	1002	$2.36	CHISEL (9 MM)	{5/16"}
MT	1003	$5.00	CHISEL (13 MM)	{½"}
MT	1004	$5.56	CHISEL (16 MM)	{⅝"}
MT	1005	$9.04	CHISEL (19 MM)	{¾"}
MT	1006	$7.00	CHISEL (13 MM EXTRA LONG)	{½"}
MT	1007	$5.00	CHISEL (19 MM EXTRA LONG)	{¾"}
MT	1008	$3.50	CHISEL (22 MM)	{⅞"}
MT	1009	$5.00	CHISEL (25.4 MM)	{1"}
MT	1310	$4.00	FILE, 200 MM (3 CORNERED)	{8"}
MT	1312	$6.00	FILE, 200 MM (3 CORNERED-SMOOTH)	{8"}
MT	1318	$3.98	FILE, 200 MM (SQUARE-SMOOTH)	{8"}
MT	1320	$10.00	FILE, 300 MM (FLAT BASTARD)	{12"}
MT	1344	$10.00	FILE (HALF ROUND 300 MM BASTARD)	{12"}
MT	1350	$8.00	FILE, 300 MM (ROUND BASTARD)	{12"}
MT	1470	$5.56	GREASE (CARTRIDGE)	
MT	1490	$30.49	GUN, GREASE (LEVER HANDLE)	
MT	1500	$10.00	HACKSAW (FRAME)	
MT	1524	$6.99	HAMMER, RUBBER	
MT	1530	$7.49	HAMMER (DRILLER-1.4 KG)	{3 LB}
MT	1550	$8.00	HAMMER, BALL PEIN (0.2 KG)	{16 OZ}
MT	2110	$10.00	PIN (DRIFT 300 MM LONG)	{12"}
MT	2200	$6.63	PLIERS (NEEDLE NOSE)	
MT	2210	$8.00	PLIERS (SIDE CUTTER)	
MT	2222	$8.00	PLIERS (SLIP JOINT 200 MM)	{8"}

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
MT	2240	$6.25	PLIERS (VISE GRIP 250 MM)	{10"}
MT	2250	$10.00	PLIERS (WATER PUMP 250 MM)	{10"}
MT	2300	$4.50	PUNCH, CENTER	
MT	2310	$4.84	PUNCH, DRIFT PIN P-3	
MT	2312	$3.89	PUNCH, DRIFT PIN 9.5 MM X 4.8 MM	{⅜", 3/16"}
MT	2315	$4.65	PUNCH, DRIFT PIN 11.1 MM X 5.6 MM	{7/16" X 7/32"}
MT	2320	$3.75	PUNCH, DRIFT PIN P-5	
MT	2802	$5.00	SCREWDRIVER, 100 MM BLADE	{4"}
MT	2804	$5.00	SCREWDRIVER, 150 MM BLADE	{6"}
MT	2805	$3.00	SCREWDRIVER (CABINET TYPE)	
MT	2806	$10.00	SCREWDRIVER, 200 MM BLADE	{8"}
MT	2812	$3.00	SCREWDRIVER, PHILIPS 2 PT. 25 MM SHORT	{1"}
MT	2814	$1.36	SCREWDRIVER, PHILIPS 2 PT. 100 MM SHORT	{4"}
MT	3075	$2.60	SOCKET, ⅜", ½" DRIVE	
MT	3076	$2.60	SOCKET, 7/16", ½" DRIVE	
MT	3077	$2.60	SOCKET, ½", ½" DRIVE	
MT	3078	$2.60	SOCKET, 9/16", ½" DRIVE	
MT	3079	$2.60	SOCKET, ⅝", ½" DRIVE	
MT	3080	$2.95	SOCKET, ¾" SPARK PLUG ½" DRIVE	
MT	3081	$2.60	SOCKET, ¾', ½' DRIVE	
MT	3090	$8.00	SOCKET, ⅞" SPARK PLUG ½" DRIVE	
MT	3100	$8.00	SOCKET, 13/16" SPARK PLUG ½" DRIVE	
MT	3102	$5.05	SOCKET, 1" SPARK PLUG ½" DRIVE	
MT	3104	$5.85	SOCKET, 1-1/16" SPARK PLUG ½" DRIVE	
MT	3106	$5.85	SOCKET, 1⅛" SPARK PLUG ½" DRIVE	
MT	3108	$5.31	SOCKET, 1⅛' ¾' DRIVE	
MT	3790	$15.00	WRENCH, ALLEN (SET)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
MT	3800	$2.10	WRENCH, ALLEN (¼")	
MT	3850	$6.25	WRENCH (CRESCENT 150 MM)	{6"}
MT	3860	$9.00	WRENCH (CRESCENT 200 MM)	{8"}
MT	3870	$12.70	WRENCH (CRESCENT 300 MM)	{12"}
MT	3936	$4.75	WRENCH, OPEN END BOX COMBO (¼")	
MT	3937	$11.60	WRENCH, OPEN END BOX COMBO (5/16")	
MT	3938	$5.00	WRENCH, OPEN END BOX COMBO (⅜")	
MT	3939	$6.19	WRENCH, OPEN END BOX COMBO (7/16")	
MT	3940	$5.40	WRENCH, OPEN END BOX COMBO (½")	
MT	3950	$5.85	WRENCH, OPEN END BOX COMBO (9/16")	
MT	3951	$7.30	WRENCH, OPEN END BOX COMBO (⅝")	
MT	3952	$7.10	WRENCH, OPEN END BOX COMBO (11/16")	
MT	3953	$8.65	WRENCH, OPEN BOX COMBO (¾")	
MT	3954	$9.98	WRENCH, OPEN END BOX COMBO (⅞")	
MT	3960	$12.59	WRENCH, OPEN END BOX COMBO (15/16")	
MT	3961	$13.10	WRENCH, OPEN END BOX (1")	
MT	3962	$16.20	WRENCH, OPEN END BOX (1-1/16")	
MT	3963	$18.70	WRENCH, OPEN END BOX (1⅛")	
MT	3964	$26.65	WRENCH, OPEN END BOX (1¼")	
MT	3980	$14.35	WRENCH, RATCHET (½" DRIVE)	
MT	3985	$37.70	WRENCH, RATCHET (¾" DRIVE)	
MT	3990	$60.57	WRENCH, SOCKET SET (½" DRIVE)	

PAVEMENT BITS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
PB	4160	$70.00	2½" THIN WALL BITS SURFACE SET (COARSE)	
PB	4163	$125.00	4¼" THIN WALL BITS SURFACE SET (COARSE)	
PB	4165	$128.00	4¼" THIN WALL BITS (IMPREGNATED)	
PB	4170	$200.00	6¼" THIN WALL BITS (IMPREGNATED)	
PB	4175	$181.00	6¼" THIN WALL BITS SURFACE SET (COARSE)	

PERSONAL ITEMS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
PI	660	$18.57	*** BOOTS (HIP) SIZE 6	
PI	661	$18.57	*** BOOTS (HIP) SIZE 7	
PI	662	$18.57	*** BOOTS (HIP) SIZE 8	
PI	663	$18.57	*** BOOTS (HIP) SIZE 9	
PI	664	$18.57	*** BOOTS (HIP) SIZE 10	
PI	665	$18.57	*** BOOTS (HIP) SIZE 11	
PI	666	$18.57	*** BOOTS (HIP) SIZE 12	
PI	667	$18.57	*** BOOTS (HIP) SIZE 13	
PI	668	$18.57	*** BOOTS (HIP) SIZE 14	
PI	670	$9.04	*** BOOTS (KNEE HIGH) SIZE 6	
PI	671	$9.25	*** BOOTS (KNEE HIGH) SIZE 7	
PI	672	$9.25	*** BOOTS (KNEE HIGH) SIZE 8	
PI	673	$9.25	*** BOOTS (KNEE HIGH) SIZE 9	
PI	674	$9.25	*** BOOTS (KNEE HIGH) SIZE 10	
PI	675	$9.25	*** BOOTS (KNEE HIGH) SIZE 11	
PI	676	$9.25	*** BOOTS (KNEE HIGH) SIZE 12	
PI	677	$9.25	*** BOOTS (KNEE HIGH) SIZE 13	
PI	678	$9.25	*** BOOTS (KNEE HIGH) SIZE 14	
PI	1455	$3.00	*** GLASSES (SAFETY)	
PI	1456	$4.00	GLOVES, LEATHER	
PI	1458	$4.00	GLOVES, INSULATED	
PI	1459	$2.00	GLOVES, RUBBER	
PI	1715	$9.07	*** HELMET (SAFETY-PLASTIC)	
PI	2040	$3.00	*** LINERS (SAFETY HELMET)	
PI	2075	$15.49	*** MUFFS, HUSH	
PI	3766	$7.55	*** VEST, SAFETY	
PI	3767	$25.00	** VEST, FLOATING	

RODS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
RD	1160	$16.00	COUPLINGS ("AW" ROD)	
RD	1165	$24.30	COUPLING ("BW" ROD)	
RD	1170	$30.20	COUPLINGS ("NW" ROD)	
RD	2480	$50.00	* ROD, "25.4 MM" R.P.S. (1 M EACH)	{1", 3'}
RD	2490	$42.00	ROD, "AW" (0.3 M LENGTH EACH)	{1'}
RD	2500	$37.00	ROD, "AW" (0.6 M LENGTH EACH) ***See Photo on Page 78.***	{2'}
RD	2510	$51.00	ROD, "AW" (1.5 M LENGTH EACH)	{5'}
RD	2520	$89.00	ROD, "AW" (3.0 M LENGTH EACH)	{10'}
RD	2525	$118.00	ROD, "BW" (1.5 M LENGTH EACH) ***See Photo on Page 78.***	{5'}
RD	2530	$72.00	ROD, "NW" (0.6 M LENGTH EACH)	{2'}
RD	2540	$110.00	ROD, "NW" (1.5 M LENGTH EACH)	{5'}
RD	2550	$190.00	ROD, "NW" (3.0 M LENGTH EACH)	{10'}
RD	2560	$43.00	* ROD, PION JAR (25.4 MM DIA. X 1 M LONG)	{1" X 3'}
RD	3785	$21.95	** WIPERS, RUBBER ("NW" ROD)	

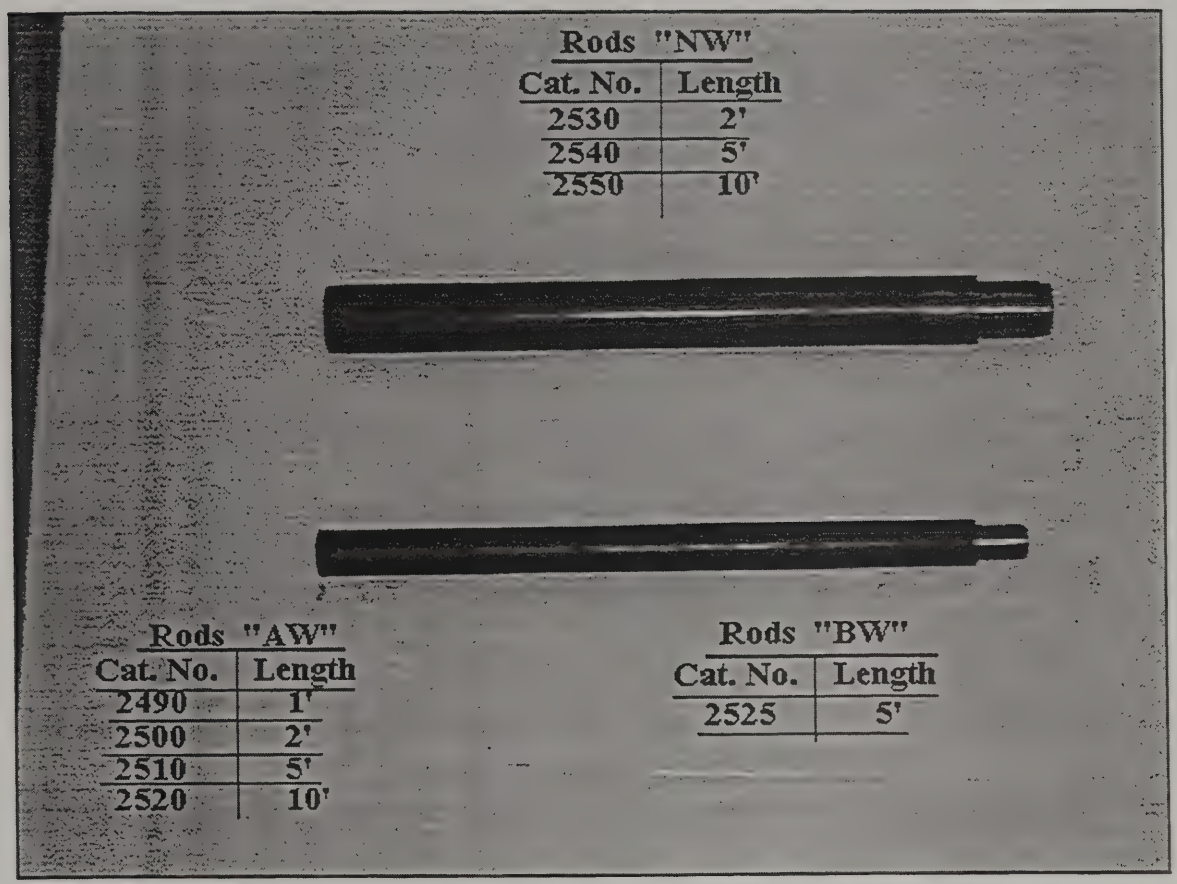

Rods "NW"
Cat. No. | Length
2530 | 2'
2540 | 5'
2550 | 10'
Rods "AW"
Cat. No. | Length
2490 | 1'
2500 | 2'
2510 | 5'
2520 | 10'
Rods "BW"
Cat. No. | Length
2525 | 5'

Photo #26

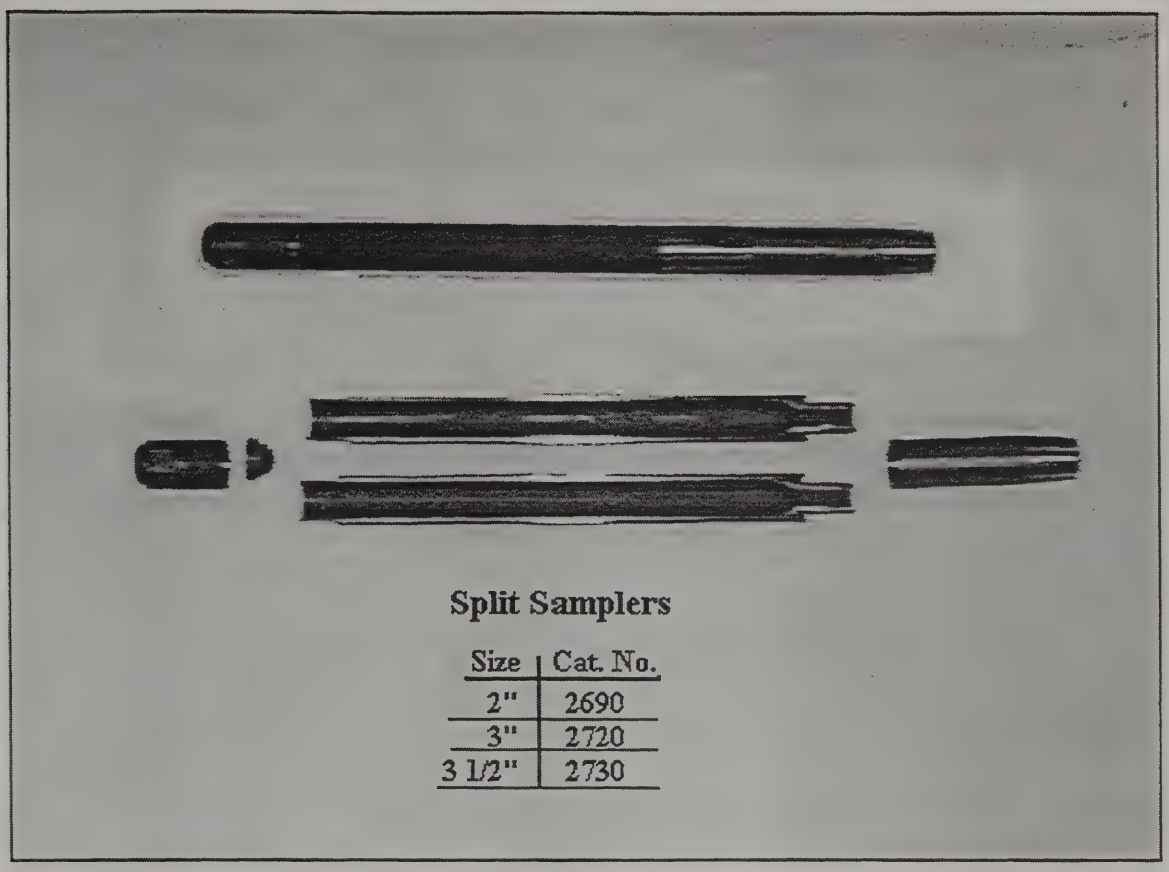
ROPE

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
RP	2580	$45.00	* ROPE, MANILA (6 MM BALE)	{¼"}
RP	2590	$56.95	* ROPE, MANILA (13 MM BALE)	{½"}
RP	2600	$117.15	* ROPE, MANILA (19 MM BALE)	{¾"}
RP	2605	$210.00	ROPE, 19 MM NYLON BALE (FOR RAFT ANCHORS-L.M.)	{¾"}
RP	2610	$183.55	* ROPE, MANILA (25.4 MM BALE)	{1"}

SAMPLERS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SA	270	$95.00	BARREL, MAIN (25.4 MM R.P.S.)	{1"}
SA	780	$1.00	CAPS (150 MM) BRASS	{3"}
SA	790	$.30	CAPS (88.9 MM LINER)	{3½"}
SA	800	$.30	CAP, PVC (150 MM PRESS TYPE)	{3"}
SA	860	$25.00	CASING (25.4 MM R.P.S. 1 M EACH)	{1", 3'}
SA	1150	$40.00	CONNECTOR, SPECIAL (SAMPLER ADAPTER)	
SA	1285	$6.75	CUPS, 88.9 MM LEATHER PISTON SAMPLE	{3½"}
SA	1510	$59.00	* HAMMER (25 MM R.P.S.)	{1"}
SA	1640	$112.60	HEAD, DRIVE (63.5 MM X 63.5 MM "AW" ROD)	{2½", 2½"}
SA	1644	$45.00	HEAD, SAMPLER (51 MM SPLIT BARREL)	{2"}
SA	1680	$110.00	HEAD, SHELBY (88.9 MM)	{3½"}
SA	1790	$89.00	JACK (25.4 MM R.P.S.)	{1"}
SA	2050	$15.00	LINERS (SS-76 MM WITH CAPS)	{3"}
SA	2340	$25.00	RETAINER, FLAP (44.5 MM)	{1¾"}
SA	2351	$1.00	RETAINER, PLASTIC (50.8 MM)	{2"}
SA	2371	$7.70	RETAINER, PLASTIC (88.9 MM)	{3½"}
SA	2401	$1.00	RING, "O" (HYD. SAMPLER)	
SA	2660	$144.00	SAMPLER (44.5 MM SOLID) ***See Photo on Page 84.***	{1¾"}
SA	2670	$125.00	SAMPLER (50.8 MM H.D. SPLIT-WITH PLUG)	{2"}
SA	2690	$110.00	SAMPLER (50.8 MM LYNAC) ***See Photo on Page 84.***	{2"}
SA	2720	$150.00	SAMPLER (76.2 MM SPLIT)	{3"}
SA	2730	$236.00	SAMPLER (88.9 MM SPLIT FOR LINER) ***See Photo on Page 84.***	{3½"}
SA	2740	$350.00	SAMPLER (88.9 MM SOLID 1 M LONG)	{3½", 36"}
SA	2750	$165.00	* SAMPLER (STATIONARY PISTON 76.2 MM)	{3"}
SA	2760	$118.00	* SAMPLER (STATIONARY PISTON 88.9 MM)	{3½"}
SA	2790	$1.30	SCREW (SHELBY HEAD)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SA	3020	$30.00	SHOE, SAMPLER (76.2 MM)	{3"}
SA	3030	$29.00	SHOE, SAMPLER (88.9 MM)	{3½"}
SA	3720	$20.00	TUBE, SHELBY (88.9 MM) ***See Photo on Page 85.***	{3½"}
SA	3780	$1.60	WAX (MIXED KG)	



Split Samplers

Size	Cat. No.
2"	2690
3"	2720
3 1/2"	2730

Photo #27

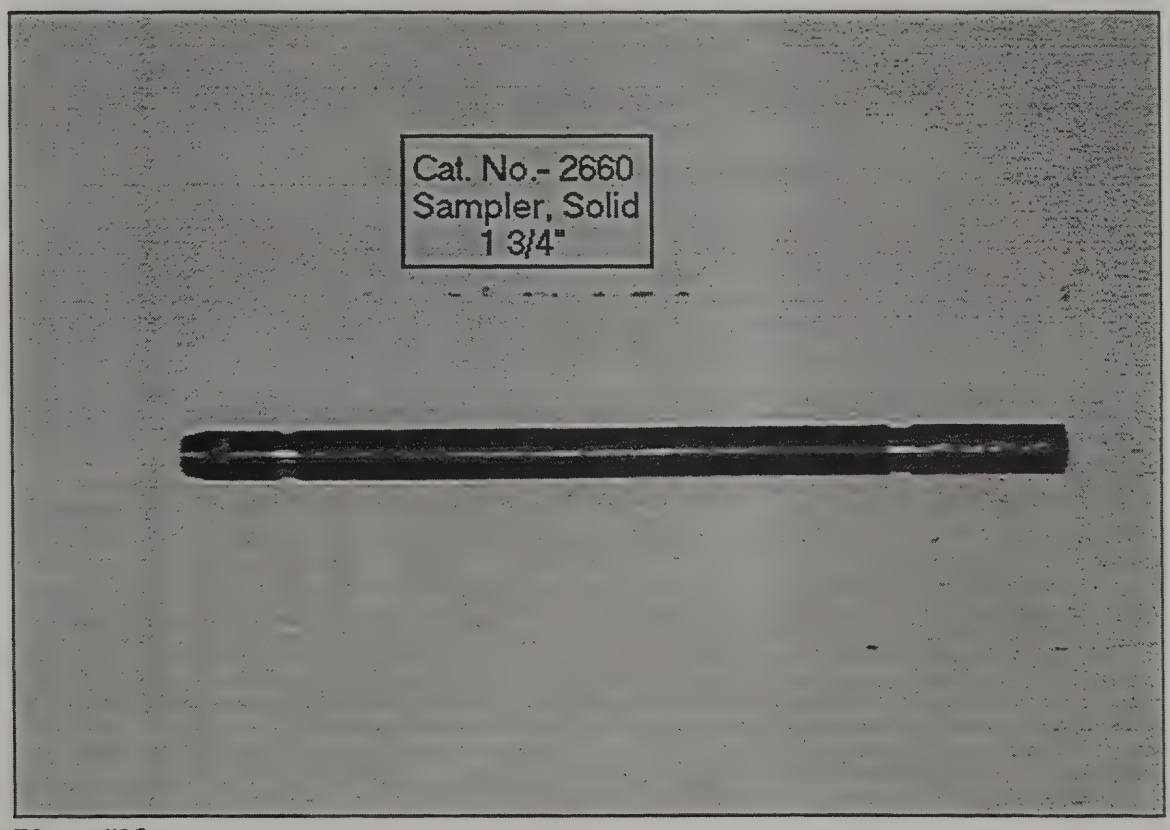


Photo #28

Photo #29

SUBS

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SB	3210	$46.00	SUB ("AW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
SB	3215	$59.00	SUB ("AW" ROD BOX TO "A" ROD PIN)	
SB	3220	$65.00	SUB ("AW" ROD BOX TO "BW" CASING PIN)	
SB	3225	$40.00	SUB ("AW" ROD BOX TO "BX" CASING PIN	
SB	3230	$42.00	SUB ("AW" ROD BOX TO "BW" ROD PIN)	
SB	3232	$75.00	SUB ("AW" ROD BOX TO "BW" ROD BOX)	
SB	3233	$75.00	SUB ("AW" ROD BOX TO "NW" ROD BOX)	
SB	3250	$58.00	SUB ("AW" ROD BOX TO "NW" ROD PIN) ***See Photo on Page 89.***	
SB	3260	$25.00	SUB ("AW" ROD BOX TO "NX" CASING PIN)	
SB	3265	$70.00	SUB ("AW" ROD BOX TO "NW" CASING PIN)	
SB	3290	$65.00	SUB ("AW" ROD BOX TO 100 MM X 178 MM THREAD PIN)	{1¼" X 7"}
SB	3302	$75.00	SUB ("AW" ROD PIN TO "NW" ROD PIN)	
SB	3310	$90.00	SUB ("BW" CASING BOX TO "AW" ROD PIN)	
SB	3314	$65.00	SUB ("BW" CASING BOX TO "NW" CASING PIN)	
SB	3315	75.00	SUB ("BW" CASING BOX TO "NW" ROD PIN)	
SB	3320	$85.00	SUB ("BW" CASING PIN TO 63.5 MM PIPE PIN)	{2½"}
SB	3325	$54.00	SUB ("NW" CASING BOX TO "NX" CASING BOX)	
SB	3327	$56.59	SUB ("NW" CASING BOX TO "NX" CASING PIN)	
SB	3330	$54.00	SUB ("NW" ROD BOX TO "AW" ROD PIN) ***See Photo on Page 89.***	
SB	3331	$78.00	SUB ("NW" ROD BOX TO "BW" CASING PIN)	
SB	3332	$75.95	SUB ("AW" ROD BOX TO BW ROD BOX)	
SB	3340	$65.50	SUB ("NW" ROD BOX TO "N" ROD PIN)	
SB	3345	$71.00	SUB ("NW" ROD BOX TO "NW" CASING PIN)	
SB	3350	$34.00	SUB ("NW" ROD BOX TO "NX" CASING PIN)	

GROUP	CATALOG NUMBER	COST OF 1 ITEM	DESCRIPTION	
SB	3360	$90.00	SUB ("NW" ROD BOX TO 63.5 MM PIPE PIN)	{2½"}
SB	3370	$89.00	SUB ("NW" ROD BOX TO "HW" CASING PIN)	
SB	3380	$105.00	SUB ("NW" ROD BOX 60.3 MM A.P.I.)	{2⅜"}
SB	3390	$160.00	SUB ("NW" ROD BOX TO 88.9 MM A.P.I.)	{3½"}
SB	3400	$60.00	SUB (31.8 MM X 178 MM THREAD BOX TO "AW" ROD PIN)	{1¼", 7"}
SB	3402	$50.00	SUB (31.8 MM X 178 MM THREAD PIN TO 31.8 MM X 178 MM THREAD PIN)	
SB	3405	$68.10	SUB (41.3 MM HEX PIN TO NW" ROD PIN)	{1⅝"}
SB	3410	$129.00	SUB ("HW" CASING PIN TO 101.6 MM PIPE PIN)	{4"}
SB	3417	$150.00	"NW" ROD BOX TO "PW" CASING PIN	

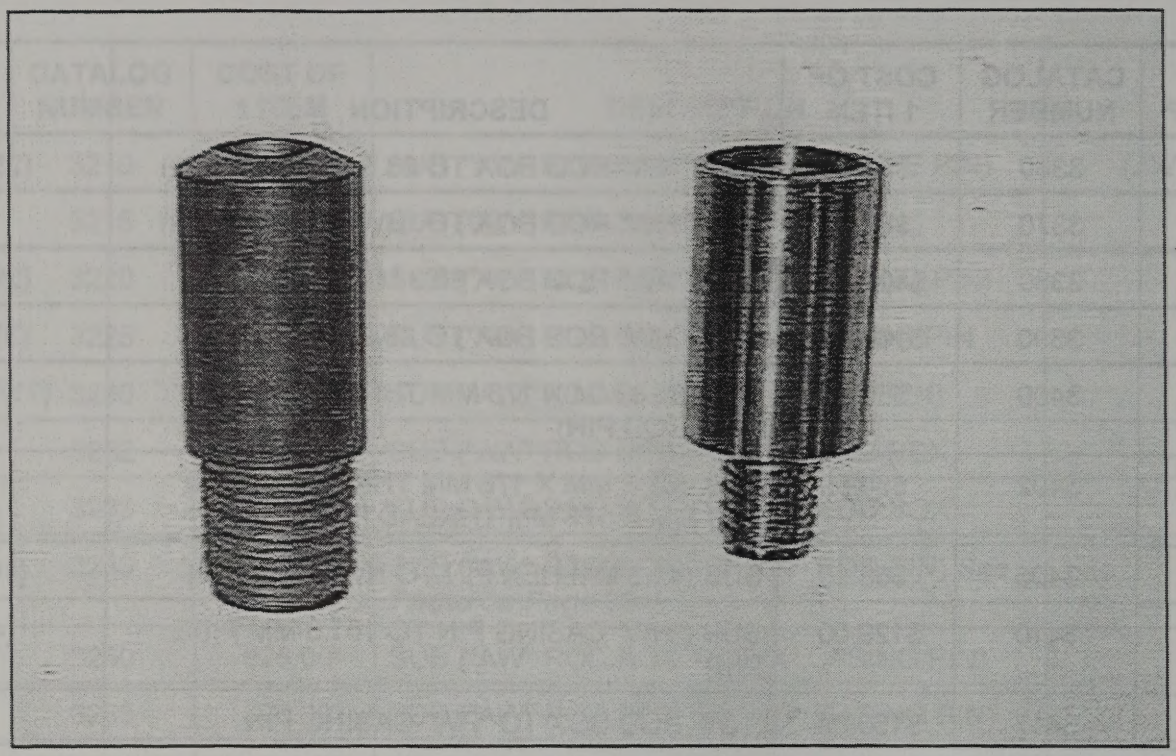


Photo #30

Pin to Pin		
Pin	**Pin**	**Cat. No.**
AW	NW	3302
AW	2½" Pipe	3320
1⅝" Hex.	NW	3405
HW	4" Pipe	3410

Box to Box		
Box	**Box**	**Cat. No.**
AW	BW	3232
AW	NW	3233
AW	BW	3332
NW	2⅜" A.P.I.	3380
NW	3½" A.P.I.	3390

Box to Pin		
Box	**Pin**	**Cat. No.**
AW	2½" Pipe	3210
AW	AW	3215
AW	BWC	3220
AW	BW	3230
AW	NW	3250
AW	NWC	3265
AW	1¼"x7"	3290
BWC	AW	3310
BWC	NWC	3314
BWC	NW	3315
NW	AW	3330
NW	BWC	3331
NW	NW	3340
NW	NWC	3345
NW	2½" Pipe	3360
NW	HWC	3370
1¼"x7"	AW	3400

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